Proposed Distribution Facility Project 7211 and 7219 Morgan Road Town of Clay, Onondaga County, New York

Exhibit E

Wetlands/Waters Impact Assessment



EXHIBIT E

Wetlands/Waters Impact Assessment Proposed Distribution Facility Project 7211 and 7219 Morgan Road Town of Clay, Onondaga County, New York

Existing Conditions

Langan Engineering and Environmental Services, Inc. (Langan) wetland scientists conducted a delineation of wetlands and surface waters located at the project site in July 2019. The delineation was completed in accordance with federal delineation methodology outlined under the U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual and Northcentral and Northeast Regional Supplement. Delineated features onsite include one (1) stream, one (1) pond and twelve (12) wetland features (see Wetlands/Waters Map - Figure E1).

The onsite stream, a Tributary of Onondaga Lake, totals approximately 2,000 linear feet and generally bisects the property from northeast to southwest. The stream channel has been historically modified and is surfaced with rip-rap and concrete. The stream is identified by the New York State Department of Environmental Conservation (NYSDEC) as a Class B water, and is therefore considered a protected stream under the NYSDEC Protection of Waters Program. An irrigation pond totaling approximately 0.5 acres is present along the southern site boundary. The pond appears to be a man-made feature constructed sometime between 1960 and 1966.

The area of wetlands onsite totals approximately 1.1 acres. Onsite wetlands consist of drainage swales and small, fragmented areas of emergent wetlands located within the active golf course and comprised of actively managed turf grass. The majority of wetlands appear to have formed within depressions or are wetlands that may have been historically modified during original construction of the golf course. The wetlands onsite are not mapped by NYSDEC and are not located within close proximity to any NYSDEC-mapped wetlands; therefore, wetlands onsite are regulated only by the USACE.

Wetlands/Waters Impacts

Impacts to wetlands/waters have been avoided and minimized to the maximum extent practicable through an iterative site design process and the use of retaining walls to limit land disturbance within close proximity to wetlands/waters.

The project will result in limited impacts to wetlands/waters necessary for the construction of: two stream crossings required for access to the western portion of the parcel; a culverted access drive to Liverpool Bypass; three stormwater discharge points; and, a small area of land grading near Liverpool Bypass. Wetlands/waters impacts total approximately 4,350 square feet (0.099 acres), which includes approximately 160 linear feet of the stream channel required for the two stream crossings and small portions of the drainage ditch/swale along Liverpool Bypass. Both wetland/water features to be disturbed are of low value due to current conditions, location and historic activities including the placement of rip-rap and concrete along the stream channel.

The stream crossings will be constructed/installed to maintain low flow and aquatic life movement and will also be sized/designed to provide adequate capacity and stability for various flood flows. Additionally, the project has been design with appropriate stormwater management

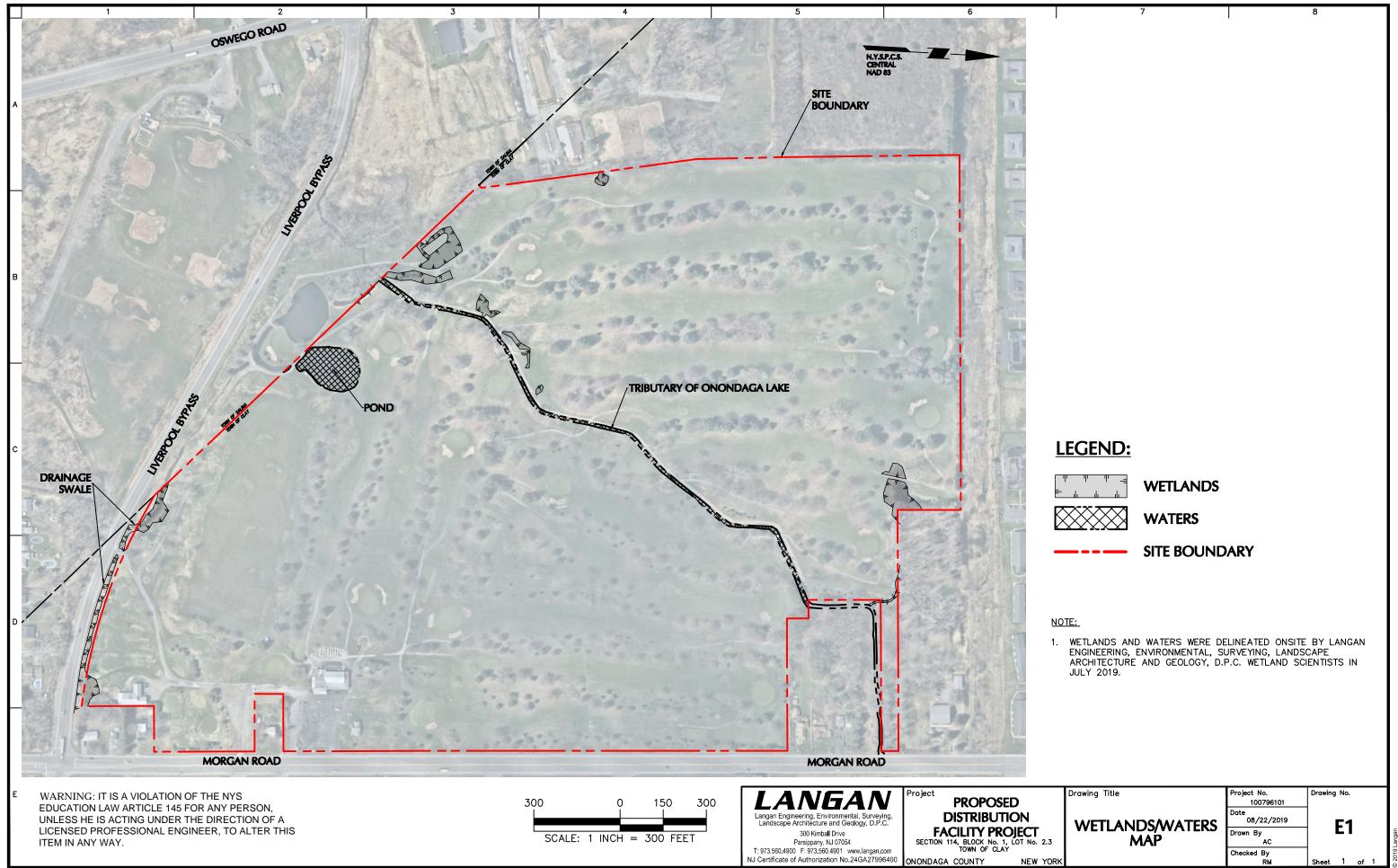


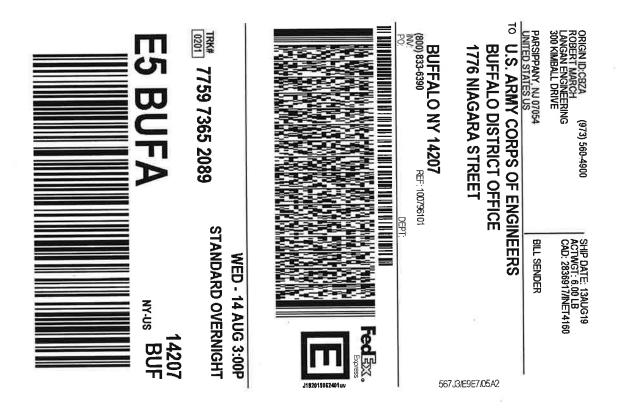
Exhibit E: Wetlands/Waters Impact Assessment
Proposed Distribution Facility Project
7211 and 7219 Morgan Road
Town of Clay, Onondaga County, New York
Langan Project No. 100796101 - Page 2 of 2

measures to avoid potential degradation of onsite and downstream surface waters. Based on the low value of onsite resources, limited area of wetlands/waters impacts and incorporated design elements, the proposed stream crossings and small amounts of wetland fill are not expected to result in a detrimental impact on existing resources.

The project has been designed such that it qualifies for USACE Nationwide Permit (NWP) Nos. 7, 14 and 39. The NWP program is intended for activities that have no more than minimal individual and cumulative adverse environmental effects. An application will be submitted to the USACE for issuance of these NWPs seeking authorization of the above-referenced wetland/waters impacts. Additionally, an application will be submitted to the NYSDEC for issuance of an Article 15, Protection of Waters Permit for authorization of the two stream crossings. The project design is consistent with applicable USACE and NYSDEC permit requirements.







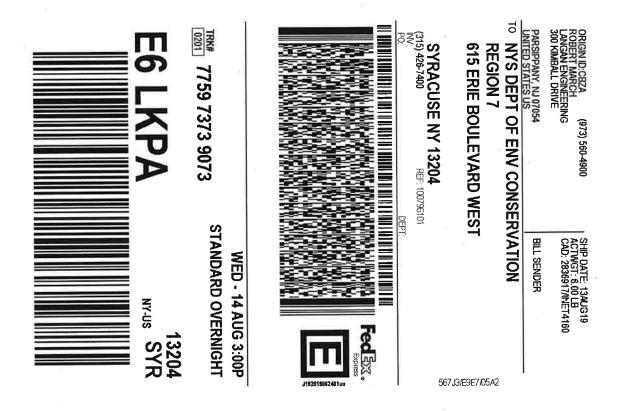
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APPLICATION FOR:

JURISDICTIONAL DETERMINATION

Section 114, Block 1, Lot 2.3 Town of Clay Section 24, Block 1, Lots 3.2, 4.2, 37.1 and 37.2 Town of Salina Onondaga County, New York

Submitted to:

U.S. Army Corps of Engineers, Buffalo District 1776 Niagara Street Buffalo, New York 14207

New York State Department of Environmental Conservation, Region 7
615 Erie Boulevard West
Syracuse, New York 13204-2400

Prepared For:

TC Syracuse Development Associates, LLC 300 Conshohocken State Road, Suite 250 West Conshohocken, PA 19428

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive, 4th Floor Parsippany, New Jersey 07054

> 13 August 2019 100796101

LANGAN

300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com



13 August 2019

U.S. Army Corps of Engineers Buffalo District Office 1776 Niagara Street Buffalo, NY 14207

New York State Department of Environmental Conservation Region 7 615 Erie Boulevard West Syracuse, New York 13204-2400

Re: Jurisdictional Determination Request
Section 114, Block 1, Lot 2.3 – Town of Clay
Section 24, Block 1, Lots 3.2, 4.2, 37.1 and 37.2 – Town of Salina
Onondaga County, New York
Langan Project No. 100796101

Applicant: TC Syracuse Development Associates, LLC

300 Conshohocken State Road, Suite 250

West Conshohocken, PA 19428

To Whom It May Concern:

On behalf of TC Syracuse Development Associates, LLC, Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan), herein requests a Jurisdictional Determination (JD) from the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to confirm the extent of federal and state regulated wetlands/waters on the above-referenced site. We are seeking USACE concurrence on the jurisdictional limits of federally-regulated waters of the U.S., including wetlands onsite. Additionally, we are requesting NYSDEC concurrence on the absence of state-regulated freshwater wetlands and the jurisdictional limits of 'protected streams' under the NYSDEC Protection of Waters Program.

The site is located at the northwestern intersection of Morgan Road and Liverpool Bypass in the Towns of Clay and Salina, Onondaga County, New York. The is identified on the municipal tax map as Section 114, Block 1, Lot 2.3 in the Town of Clay and Section 24, Block 1, Lots 4.2, 3.2, 37.2, and 37.1 in the Town of Salina. The site currently comprises an 18-hole golf course, driving range and country club, operating as the Liverpool Golf and Public Country Club.

Langan wetland scientists conducted a delineation of wetlands and waters onsite between July 10 and July 12, 2019. Various wetlands/waters have been identified and delineated onsite.

Jurisdictional Determination Request
Section 114, Block 1, Lot 23 - Town of Clay
Section 24, Block 1, Lots 3.2, 4.2, 37.1 and 37.2 - Town of Salina
Onondaga County, State of New York
Langan Project No. 100796101

There are no NYSDEC-mapped freshwater wetlands present on or within close proximity to the site. A Tributary of Onondaga Lake generally bisects the site and is identified by NYSDEC as a Class B stream. An overview of the wetlands delineated onsite can be found in Section 2.2 of the application report. A discussion on the jurisdiction of delineated features in regards to USACE jurisdiction can be found in Section 3.0 and NYSDEC jurisdiction in Section 4.0 of this application.

Enclosed please find one complete copy of this Jurisdictional Determination request for each agency including the USACE Jurisdictional Determination Plans (Drawings WL100 – WL104) and the NYSDEC Jurisdictional Determination Plans (Drawings WL200 – WL204) and associated figures, photographs, data sheets and forms. Please refer to the table of contents for the location of specific review items.

If you have any questions regarding this application or require any additional information, please do not hesitate to contact us.

Sincerely,

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology D.P.C.

Robert March, P.W.S. Senior Project Scientist

for the

David Charette, P.W.S. Principal / Vice President

Enclosures

cc: George Laigaie, John Pollock – Trammell Crow Company

Richard Burrow, Trista Kuna, Craig Amundson - Langan

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1.0 SITE LOCATION AND DESCRIPTION

This request for a U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) Jurisdictional Determination (JD) was prepared for an approximate ±121.7-acre site located at the northwestern intersection of Morgan Road and Liverpool Bypass in the Town of Clay and Town of Salina, Onondaga County, New York (Figures 1 and 2). The site is currently operating as the Liverpool Golf and Public Country Club and is identified on municipal tax maps as Section 114, Block 1, Lot 2.3 in the Town of Clay and Section 24, Block 1, Lots 3.2, 4.2, 37.2 and 37.1 in the Town of Salina (Figure 3). The site is generally bounded by Morgan Road to the east, Liverpool Bypass to the south, Oswego Road and commercial businesses to the west, and a utility transmission line easement, wooded areas and residences to the north (Figure 4). The approximate center point of the site is 43.1220438° N, -76.2095833° W.

The site is currently composed of an active 18-hole public golf course, driving range and practice area that contains cart paths and footbridges throughout the property. A two-story club house, asphalt parking lot and a maintenance barn are present in the southeastern portion of the site, near Morgan Road. The majority of the site contains maintained turf grass associated with the golf course; however, trees are present between fairways and generally along the site perimeter (Figure 4). Photographs and a Photograph Location Map of the site are provided in Appendix A.

Per the NYSDEC Freshwater Wetlands and Waters Map, a Tributary of Onondaga Lake is located onsite which generally bisects the property from northeast to southwest (Figure 5). According to NYSDEC Surface Water Classifications, this stream is classified as "Class B – Fresh Surface Water". The Tributary of Onondaga Lake appears to be a Relatively Permanent Water (RPW) as flow is year-round or continuous at least seasonally. There are no NYSDEC freshwater wetlands mapped onsite. The nearest mapped wetland is identified as "SYW-3", mapped approximately 1,500 feet south of the site (Figure 5).

The United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Map identifies forested wetlands in the southwestern portion of the site (PFO1E - palustrine forested broad-leaved deciduous seasonally flooded/saturated) and ponds also in the southern portion of the site (PUBHh – Palustrine unconsolidated bottom permanently flooded diked/impounded) (Figure 6). In addition, there are two riverine wetlands mapped, one in the southern portion of the site and one that bisects the site from northeast to southwest (R4SBC – Riverine intermittent streambed seasonally flooded and R5UBH – Riverine unknown perennial unconsolidated bottom permanently flooded).

As shown on the Federal Emergency Management Agency (FEMA) Effective Flood Insurance Rate Map (FIRM), the southwestern portion of the site is mapped within the 100-year floodplain associated with the Tributary of Onondaga Lake (Figure 7). The mapped 100-year floodplain onsite ranges from elevation 398 (NAVD 88) to 399 (NAVD 88). The limit of detailed study from FEMA terminates at the Town of Clay municipal boundary and does not include the northern portion of the site.

The Natural Resources Conservation Service (NRCS) Soils Map for Onondaga County, NY identifies eleven soil map units onsite: Arkport very fine sandy loam, 2 to 6 percent slopes (ArB); Cut and Fill Land (CFL); Lairdsville silt loam, 2 to 6 percent slopes (LaB); Lakemont silty clay loam, 0 to 3 percent slopes (Lk); Lockport and Brockport silty clay loams, 0 to 6 percent slopes (LvB); Niagara silt loam, 0 to 4 percent slopes (NgA); Ontario loam, 3 to 8 percent slopes (OgB); Palms Muck (Pb); Rhinebeck silt loam (Rh); Wayland soils complex, 0 to 3 percent slopes, frequently flooded (Wn); and, Williamson silt loam, 2 to 6 percent slopes (WwB) (Figure 8). According to the Natural Resources Conservation Service (NRCS) "National List of Hydric Soils of the United States", the soil map units Lk, Wn, and Pb are classified as hydric soils.

2.0 WETLAND IDENTIFICATION AND DESCRIPTION

2.1 Methodology

The methodology used by Langan to evaluate wetlands and waters of the U.S. onsite is consistent with Federal delineation methodology, including the USACE guidelines as specifically referenced in the 1987 Corps of Engineers Wetlands Delineation Manual and the 2012 Northcentral and Northeast Regional Supplement (Version 2.0). This methodology utilizes a three parameter approach to identifying and delineating wetlands and requires a field evaluation of the three parameters to determine if an area is a wetland. The dominance of hydrophytic vegetation, the presence of suitable wetland hydrology, and hydric soils are required for a positive determination. Observations for each of these parameters are discussed below and provided on the field data sheets included in Attachment A.

2.2 Field Observations

Langan wetland scientists conducted a delineation of wetlands and waters on the property between July 10 and July 12, 2019. Delineated features onsite include thirteen (13) wetlands, one (1) stream and two (2) ponds. Below is a summary of the wetlands delineated onsite. The limits of each feature described below are identified on the USACE Jurisdictional Determination Plans (Drawings WL100 – WL104) and NYSDEC Jurisdictional Determination Plans (Drawings WL200 – WL204).

- Stream A (Tributary of Onondaga Lake) a rip-rap/concrete lined stream that bisects the property, running northeast to southwest;
- Wetland B an emergent wetland ditch/swale located in the southeastern portion of the site that contains scattered trees;
- Wetland C an emergent wetland ditch/swale located along the southern property boundary that contains scattered trees;
- Pond D irrigation pond;
- Wetland E an emergent/forested wetland adjacent to Stream A, located in the southwestern portion of the site;
- Pond F irrigation pond;
- Wetland G an emergent/forested wetland located in the southwestern portion of the site;
- Wetlands H, I, J, K, and L emergent wetlands located within turf grass areas, west of Stream A;
- Wetland M an emergent/forested wetland located along the northern property boundary;
- Wetland N an emergent wetland located within a turf grass area along the northern property boundary;
- Wetland O an emergent wetland swale located in the northeastern portion of the site; and,
- Wetland P an emergent wetland located along the western property boundary.

A summary description of the delineated wetlands and waters is provided below. The location and extent of jurisdictional wetlands and non-jurisdictional wetlands are presented respectively on the Overall USACE Jurisdictional Plan (Drawing WL100) and the Overall NYSDEC Jurisdictional Determination Plan (Drawing WL200). A description of the soils, vegetation, and hydrology can be found on the field data sheets provided in Attachment A.

Stream A – Tributary of Onondaga Lake

Stream A is a concrete/rip-rap lined RPW which generally bisects the property, flowing southwesterly from the northeast to the southwest corner of the site. The stream continues offsite paralleling Liverpool Bypass along the southern site boundary and is eventually culverted beneath Oswego Road. Per the NYSDEC Freshwater Wetlands and Waters Map, Stream A is known as a Tributary of Onondaga Lake. According to NYSDEC Surface Water Classifications, this stream is classified as "Class B – Fresh Surface Water".

Wetland B - Wetland Ditch/Swale

Wetland B is a drainage ditch/swale situated in the southeastern portion of the site, paralleling the Liverpool Bypass along the southern property boundary. The

wetland is dominated by emergent vegetation. Wetland B drains westerly and has a hydrologic connection to Wetland C via a culvert beneath a gravel access road.

Vegetation – The majority of Wetland B is dominated by emergent vegetation consisting of common reed (*Phragmites australis*). Non-dominant species include narrowleaf cattail (*Typha angustifolia*), jewelweed (*Impatiens capensis*) and smartweed (*Persicaria* spp.). The southeastern corner of the wetland includes some scattered pin oak (*Quercus palustris*) and boxelder (*Acer negundo*) individuals.

Hydrology – The primary source of hydrology in Wetland B appears to be surface water runoff from the adjacent roadway and upstream drainage network. Wetland B drains westerly and has a hydrologic connection to Wetland C via a 24-inch culvert beneath a gravel access road. Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water, soil saturation at the surface, water marks, sediment deposits, drift deposits, inundation visible on aerial imagery, drainage patterns and microtopographic relief.

Soils – Hydric soils within Wetland B are generally characterized by an 'A' horizon comprised of silty clay with a Munsell Soil color of 7.5YR 3/2 in the matrix with approximately 6% redoximorphic concentrations (mottles) of 7.5YR 4/4. The 'B1' horizon is characterized as silty clay with a Munsell Soil color of 7.5YR 5/2 in the matrix with approximately 12% redoximorphic concentrations (mottles) of 7.5YR 5/8. The 'B2' horizon is characterized as silty sand with a Munsell Soil color of 2.5Y 5/2 in the matrix with approximately 20% redoximorphic concentrations (mottles) of 2.5Y 5/6. Indicators of hydric soils include a depleted matrix and a redox dark surface.

Wetland C – Wetland Ditch/Swale

Wetland C is a drainage ditch/swale situated in the southern portion of the site, paralleling the Liverpool Bypass along the southern property boundary. This feature is dominated by emergent vegetation. Wetland C drains westerly toward Pond D (an irrigation pond) and is connected via culvert beneath a gravel cart path.

Vegetation – The majority of Wetland C is dominated by emergent vegetation consisting of common reed. Non-dominants include swamp thistle (*Cirsium muticum*), rough avens (*Geum laciniatum*), swamp milkweed (*Asclepias incarnata*), maintained (mowed) grasses (*Fescue* spp.), jewelweed and narrowleaf cattail. Throughout the wetland are some scattered eastern cottonwood (*Populus deltoides*) and willow oak (*Quercus phellos*) individuals.

Hydrology – The primary source of hydrology in Wetland C appears to be surface water runoff from the adjacent roadway and the upstream drainage network. Wetland C drains westerly toward Pond D (irrigation pond) and is connected via a 36-inch corrugated metal pipe (CMP) culvert beneath a gravel cart path. Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water, soil saturation at the surface, water marks, sediment deposits, drift deposits, inundation visible on aerial imagery, drainage patterns and microtopographic relief.

Soils – Hydric soils within Wetland C are generally characterized by an 'Oe' horizon comprised of a silty/organic texture with a Munsell Soil color of 10YR 2/1 in the matrix. The 'A' horizon is characterized by aquic silty muck soils with a Munsell Soil color of 10YR 2/1 in the matrix. Indicators of hydric soils include black histic soils.

Ponds D and F (Irrigation Ponds)

Ponds D and F are open water irrigation ponds located in the southwestern portion of the site. Based on a review of historic aerial photographs, these features appear to be man-made ponds constructed between 1960 and 1966. The ponds are hydrologically connected to the Tributary of Onondaga Lake to the north.

Vegetation – The ponds are open water features surrounded on all sides by turf grass and/or gravel cart paths.

Hydrology – Ponds D and F appear to be hydrologically driven by the upstream drainage network (Wetlands B and C) and groundwater. The ponds are hydrologically connected to the Tributary of Onondaga Lake to the north.

Soils – Ponds D and F contain silty muck soils with a Munsell Soil color of 10YR 2/1 in the matrix.

Wetland E

Wetland E is comprised of a palustrine forested/emergent wetland situated adjacent to the Tributary of Onondaga Lake (Stream A), near the southwestern property boundary. The wetland contains areas of a forested overstory with a dense emergent understory.

Vegetation – The forested/emergent portion of Wetland E is dominated by a forested overstory of green ash (Fraxinus pennsylvanica) and a dense understory of lizard's tail (Saururus cernuus) and swamp goldenrod (Solidago patula). Nondominants include common reed, jewelweed, gray's sedge (Carex grayi), green bulrush (Scirpus atrovirens) and poison ivy (Toxicodendron radicans).

Hydrology – The primary source of wetland hydrology in Wetland E appears to be streamflow and occasional floodwaters from the Tributary of Onondaga Lake (Stream A). A secondary source of hydrology in Wetland E is attributed to surface water runoff from the adjacent roadway and surrounding uplands. Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water, soil saturation at the surface, water marks, sediment deposits, drift deposits, inundation visible on aerial imagery, drainage patterns and microtopographic relief.

Soils – Hydric soils within the forested portion of Wetland E are generally characterized by an 'A' horizon comprised of silty clay with a Munsell soil color of 10YR 3/2 in the matrix with approximately 12% redoximorphic concentrations (mottles) of 10YR 5/6. The 'B' horizon is characterized by clay with a Munsell soil color of 10YR 4/1 in the matrix with approximately 12% redoximorphic concentrations (mottles) of 10YR 5/6. Indicators of hydric soils include a depleted matrix and a redox dark surface.

Wetlands H, I, J, K and L

Wetlands H, I, J, K and L are situated in the southern portion of the site, located west of the Tributary of Onondaga Lake (Stream A). The wetlands are located within or adjacent to the fairways of the golf course. These wetlands contain a surface water connection to Stream A via drainage pipes or as evidenced by overland flow.

Vegetation – Wetlands H, I, J, K and L are dominated by turf grass. Non-dominants include white clover (*Trifolium repens*) and common plantain (*Plantago major*).

Hydrology – The primary source of wetland hydrology in Wetlands H, I, J, K and L appears to be surface water runoff from surrounding upland areas. These wetlands contain a surface water connection to Stream A via drainage pipes or as evidenced by overland flow. Indicators of wetland hydrology observed during the site inspection include: soil saturation at the surface, water marks, sediment deposits, a sparsely vegetated concave surface, drainage patterns and microtopographic relief.

Soils – Hydric soils within Wetlands H, I, J, K and L are variable in soil texture and color. Refer to the data sheets in Attachment A for specific soil characterization.

Wetland M – Emergent/Forested Wetland

Wetland M is situated in the northern portion of the site, along the northern property boundary. The wetland is primarily dominated by emergent vegetation,

but includes forested vegetation as it continues offsite to the northeast. Wetland M appears to be isolated from other wetlands/waters.

Vegetation – The majority of Wetland M is dominated by emergent vegetation that includes American mannagrass (*Glyceria grandis*) and common spikerush (*Eleocharis palustris*). Non-dominant vegetation includes maintained grasses (mowed) (*Fescue* spp.) and pickerelweed (*Pontederia cordata*). Forested vegetation includes red maple (*Acer rubrum*). Other non-dominant vegetation consists of eastern cottonwood (*Populus deltoides*) and silver maple (*Acer saccharinum*).

Hydrology – The primary source of wetland hydrology in Wetland M appears to be surface water runoff from surrounding upland areas. The wetland appears to be an isolated depression with no evident surface water connection to any other wetlands/waters. Indicators of wetland hydrology observed during the site inspection include: 4 – 6 inches of standing water, soil saturation at the surface, water marks, sediment deposits, inundation visible on aerial imagery, water-stained leaves, aquatic fauna and microtopographic relief.

Soils – Hydric soils within Wetland M are generally characterized by an 'A' horizon comprised of clay with a Munsell Soil color of 10YR 4/2 in the matrix with approximately 12% redoximorphic concentrations (mottles) of 10YR 5/6. The 'B' horizon is characterized by clay with a Munsell Soil color of 10YR 3/1 in the matrix with approximately 15% redoximorphic concentrations (mottles) of 10YR 5/6. Indicators of hydric soils include a depleted matrix and a redox dark surface.

Wetland N – Emergent Wetland

Wetland N is situated in the northern portion of the site, near Wetland M. Wetland N is comprised of maintained lawn (mowed) located adjacent to a tee box of the golf course. Wetland N is separated from Wetland M by a gravel cart path. Wetland N appears to be isolated from other wetlands/waters.

Vegetation – Wetland N is dominated by maintained lawn (mowed) vegetation that includes *Fescue* spp.

Hydrology – The primary source of wetland hydrology in Wetland N appears to be surface water runoff from surrounding upland areas. The wetland appears to be an isolated depression with no evident surface water connection to any other wetlands/waters. Indicators of wetland hydrology observed during the site inspection include: water marks, sediment deposits, sparsely vegetated concave surface, water-stained leaves, surface soil cracks and microtopographic relief.

Soils – Hydric soils within Wetland N are generally characterized by an 'A' horizon comprised of silty clay with a Munsell Soil color of 7.5YR 4/2 in the matrix with approximately 15% redoximorphic concentrations (mottles) of 7.5YR 4/6. The 'B' horizon is characterized by silty clay with a Munsell Soil color of 7.5YR 3/1 in the matrix with approximately 20% redoximorphic concentrations (mottles) of 7.5YR 5/6. Indicators of hydric soils include a depleted matrix and a redox dark surface.

Wetland O – Emergent Wetland Swale

Wetland O is an emergent wetland swale located in the eastern portion of the site near the northeastern property boundary. Wetland O is comprised of maintained lawn (mowed) but also includes herbaceous wetland vegetation. Wetland O transitions into a forested wetland offsite to the north.

Vegetation – Wetland O is dominated by maintained lawn (mowed) vegetation that includes *Fescue* spp. Additional herbaceous wetland vegetation includes sedges.

Hydrology – The primary source of hydrology in Wetland O appears to be surface water runoff from surrounding upland areas. Wetland O appears to drain southerly via overland flow directly into the Tributary of Onondaga Lake (Stream A). Indicators of wetland hydrology observed during the site inspection include: standing water, drainage patterns and microtopographic relief.

Soils – Hydric soils within Wetland O are generally characterized by an 'A' horizon comprised of silty clay with a Munsell Soil color of 7.5YR 4/2 in the matrix with approximately 10% redoximorphic concentrations (mottles) of 7.5YR 5/6. The 'B' horizon is characterized by silty clay with a Munsell Soil color of 7.5YR 3/1 in the matrix with approximately 15% redoximorphic concentrations (mottles) of 7.5YR 5/6. Indicators of hydric soils include a depleted matrix and a redox dark surface.

Wetland P – Emergent Wetland

Wetland P appears to be an isolated feature situated along the western property boundary. Wetland P is comprised of a mix of maintained lawn (mowed) and emergent wetland vegetation.

Vegetation – Wetland P is dominated by maintained lawn (mowed) vegetation that includes *Fescue* spp. Additional herbaceous wetland vegetation includes narrowleaf cattail, pickerel weed, sensitive fern (*Onoclea sensibilis*), skunk cabbage (*Symplocarpus foetidus*) and swamp goldenrod.

Hydrology – The primary sources of hydrology in Wetland P appear to be surface water runoff from surrounding upland areas and groundwater. Wetland P appears to be isolated from other wetlands/waters. Indicators of wetland hydrology observed during the site inspection include: 4 – 6 inches of standing water, water marks, sediment deposits, inundation visible on aerial imagery, water-stained leaves and microtopographic relief.

Soils – Hydric soils within Wetland P are generally characterized by an 'A' horizon comprised of silty clay with a Munsell Soil color of 7.5YR 4/2 in the matrix with approximately 15% redoximorphic concentrations (mottles) of 7.5YR 4/6. The 'B' horizon is characterized by silty clay with a Munsell Soil color of 7.5YR 3/1 in the matrix with approximately 20% redoximorphic concentrations (mottles) of 7.5YR 5/6. Indicators of hydric soils include a depleted matrix and a redox dark surface.

3.0 USACE CLASSIFICATION

Stream A (Tributary of Onondaga Lake) appears to be a RPW as flow occurs year-round or continuous at least seasonally. Stream A drains southwesterly across the property and then continues westerly, paralleling Liverpool Bypass and eventually beneath Oswego Road at the southwestern property corner via a concrete box culvert. The Tributary of Onondaga Lake continues offsite for approximately 1.4 miles, eventually to the confluence of Onondaga Lake, a Traditional Navigable Water (TNW).

As discussed above in Section 2.2, Wetlands B, C, E, G, H, I, J, K, L and O and Ponds D and F contain a surface water connection to the Tributary of Onondaga Lake (Stream A) either by means of a direct surface water connection, stormwater inlet/drainage pipe or overland flow as evidenced by drainage patterns. As such, these waters of the U.S., including wetlands, are jurisdictional waters, regulated by the USACE under Section 404 of the Clean Water Act.

Wetlands M, N and P do not contain a surface water connection to the Tributary of Onondaga Lake (Stream A) or any other wetlands or waters. Under current USACE guidance for New York State (2015 Clean Water Rule), non-adjacent wetlands located greater than 100 feet from a traditional navigable water or tributary and outside the floodplain associated with any regulated water is deemed non-jurisdictional by the USACE unless determined through a case-specific analysis that the wetland significantly affects the chemical, physical or biological integrity of traditional navigable waters, interstate waters or the territorial seas. Wetlands M, N and P are isolated features that do not have a surface water connection to any adjacent wetlands or streams, are located greater than 100 feet from any traditional navigable water or tributary and situated outside the floodplain associated with any other regulated water. As such, Wetlands M, N and P appear to be non-jurisdictional features that do not meet the definition of waters of the U.S.

The limits of USACE jurisdictional wetlands and waters are depicted on the USACE Jurisdictional Determination Plans (Drawings WL100 – WL104).

4.0 NYSDEC CLASSIFICATION

Freshwater Wetlands

Pursuant to Section 24-0107 of the NYSDEC Freshwater Wetlands Act, "freshwater wetlands" means lands and waters of the state as shown on the NYSDEC Freshwater Wetlands Map which contain any or all of various types of wetlands listed at Section 24-0107(1)(a). As shown on the NYSDEC Freshwater Wetlands and Waters Map (Figure 5), there are no NYSDEC freshwater wetlands mapped onsite. The nearest mapped wetland is identified as "SYW-3", mapped approximately 1,500 feet south of the site. As such, the wetlands present onsite are not subject to NYSDEC jurisdiction under the NYSDEC Freshwater Wetlands Act.

Protection of Waters

Per the NYSDEC Freshwater Wetlands and Waters Map, a Tributary of Onondaga Lake is located onsite which bisects the property, flowing southwesterly from the northeast corner to the southwest corner. According to NYSDEC Surface Water Classifications, this stream is classified as "Class B – Fresh Surface Water" (Figure 5). Pursuant to 6 CRR-NY 608.1(aa), protected streams include those with a classification of AA, AA(t), A, A(t), B, B(t) or C(t). Thus, the Tributary of Onondaga Lake (Class B) is considered a protected stream subject to NYSDEC jurisdiction under the Protection of Waters Program. The jurisdictional limits of the Tributary of Onondaga Lake (Stream A) are identified on the NYSDEC Jurisdictional Determination Plans (Drawings WL200 – WL204).

5.0 CONCLUSION

As documented in this report, a delineation of jurisdictional wetlands and waters was completed by Langan wetland scientists in accordance with federal wetland delineation methodologies between July 10 and July 12, 2019. As shown on the USACE and NYSDEC Jurisdictional Determination Plans (Drawings WL100 – WL104 and WL200 – WL204 respectively), and as discussed in this report, the site includes thirteen (13) wetlands, two (2) ponds and one (1) stream. With exception to Wetlands M, N and P, all wetlands and waters delineated onsite are subject to USACE jurisdiction. Due to the isolated, non-adjacent nature of Wetlands M, N and P, we expect that these wetlands are non-jurisdictional.

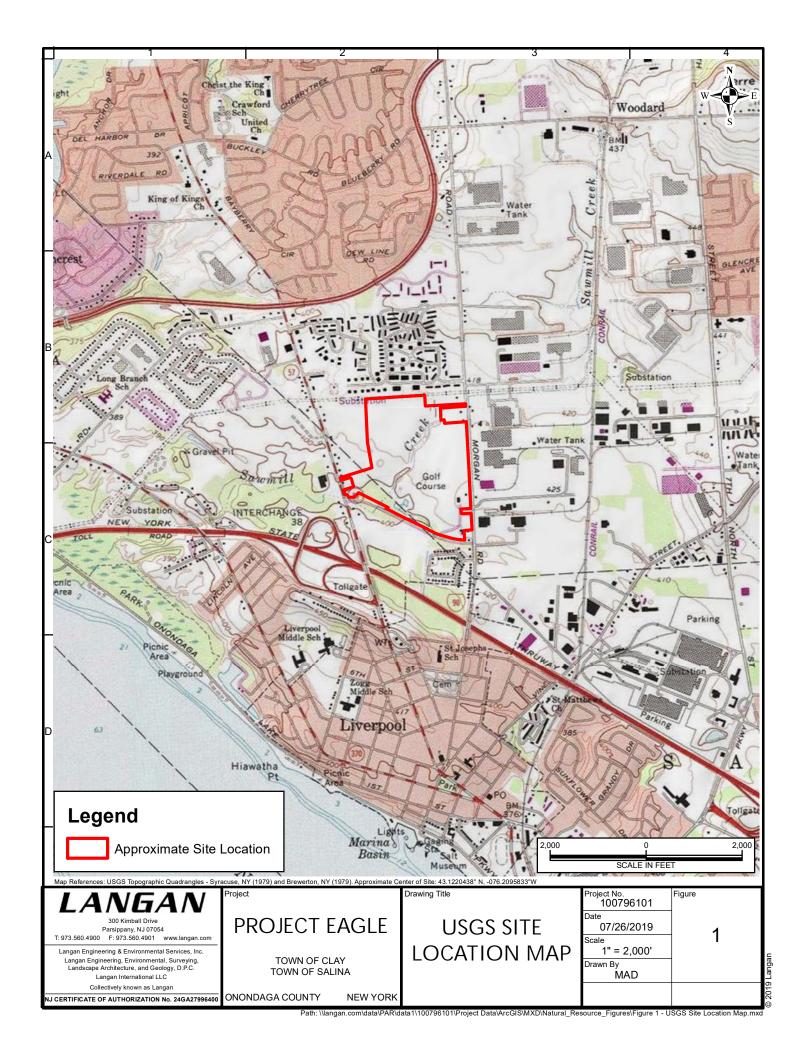
Based on the absence of NYSDEC mapped freshwater wetlands, we do not expect the delineated wetlands onsite will be subject to NYSDEC jurisdiction under the NYSDEC Freshwater Wetlands Act. The Tributary of Onondaga Lake is identified by NYSDEC as a Class B stream. As such, as shown on the NYSDEC Jurisdictional Determination Plans (Drawings WL200 – WL204), the onsite reach of the Tributary of Onondaga Lake is

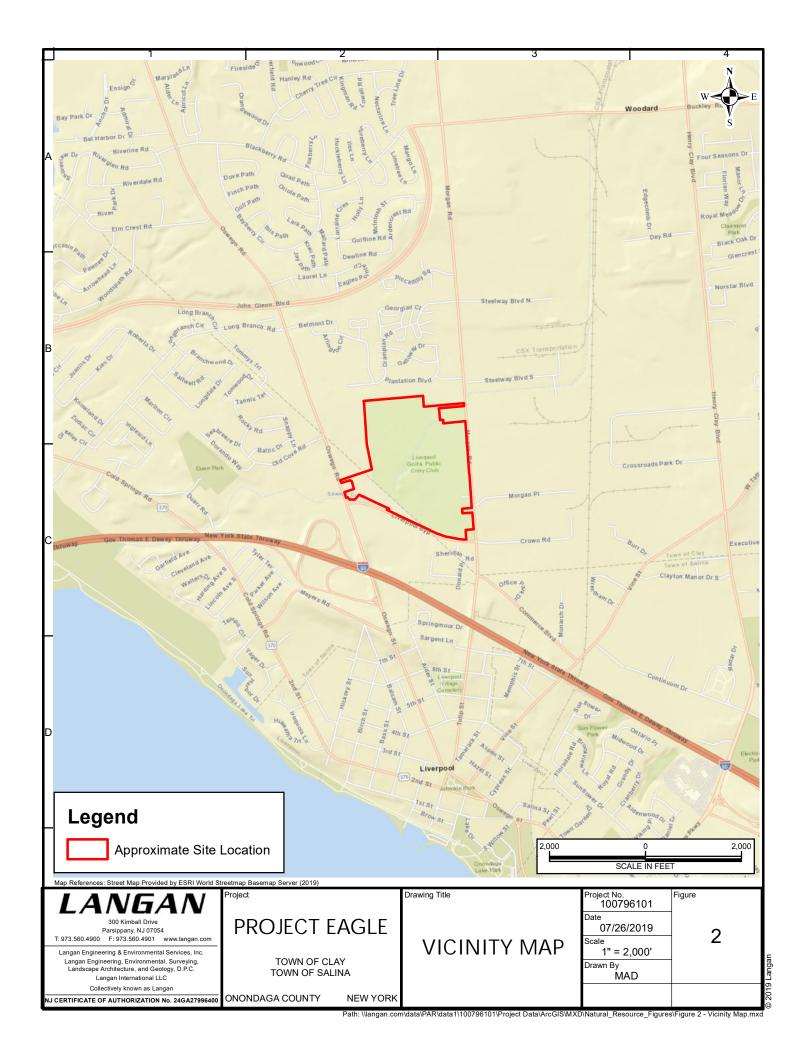
regulated by NYSDEC under the Protection of Waters Program.

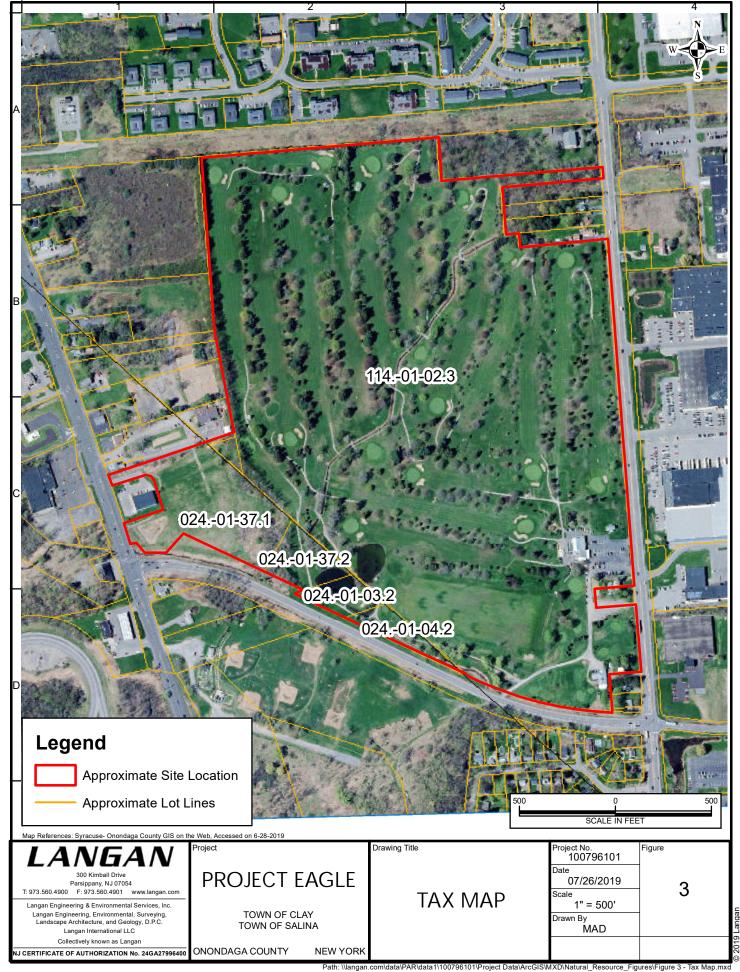
We are requesting issuance of a Jurisdictional Determination from the USACE and NYSDEC confirming the limits of wetland/waters jurisdiction onsite as shown on the USACE and NYSDEC Jurisdictional Determination Plans (Drawings WL100 – WL104 and WL200 – WL204 respectively).

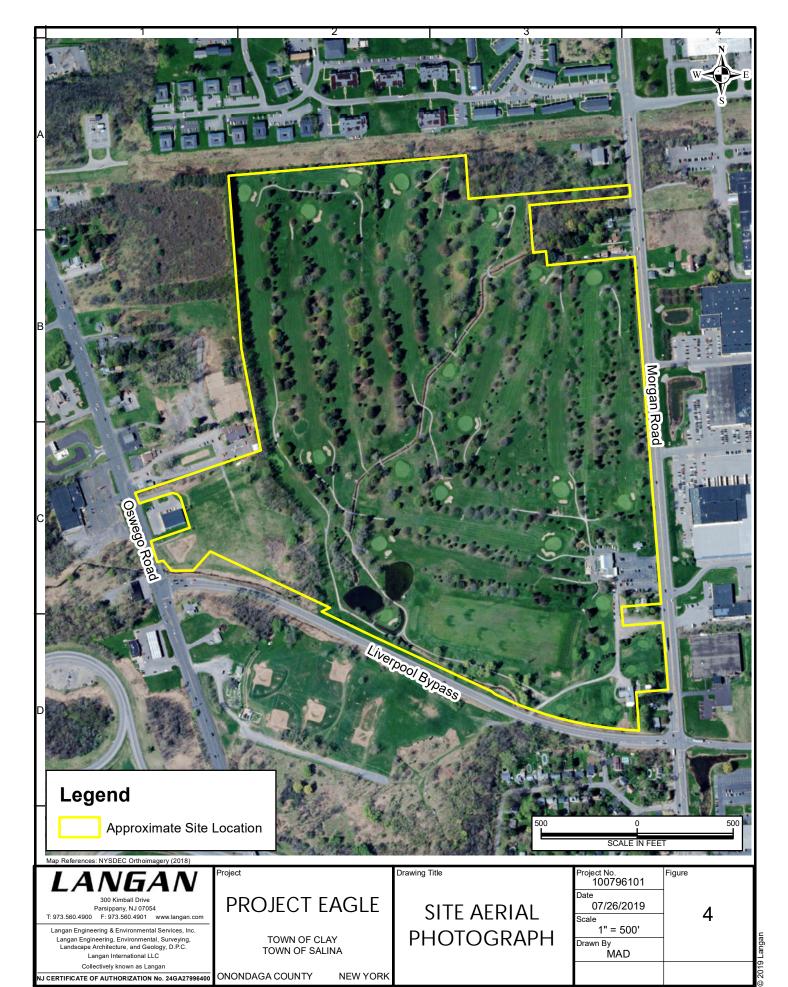
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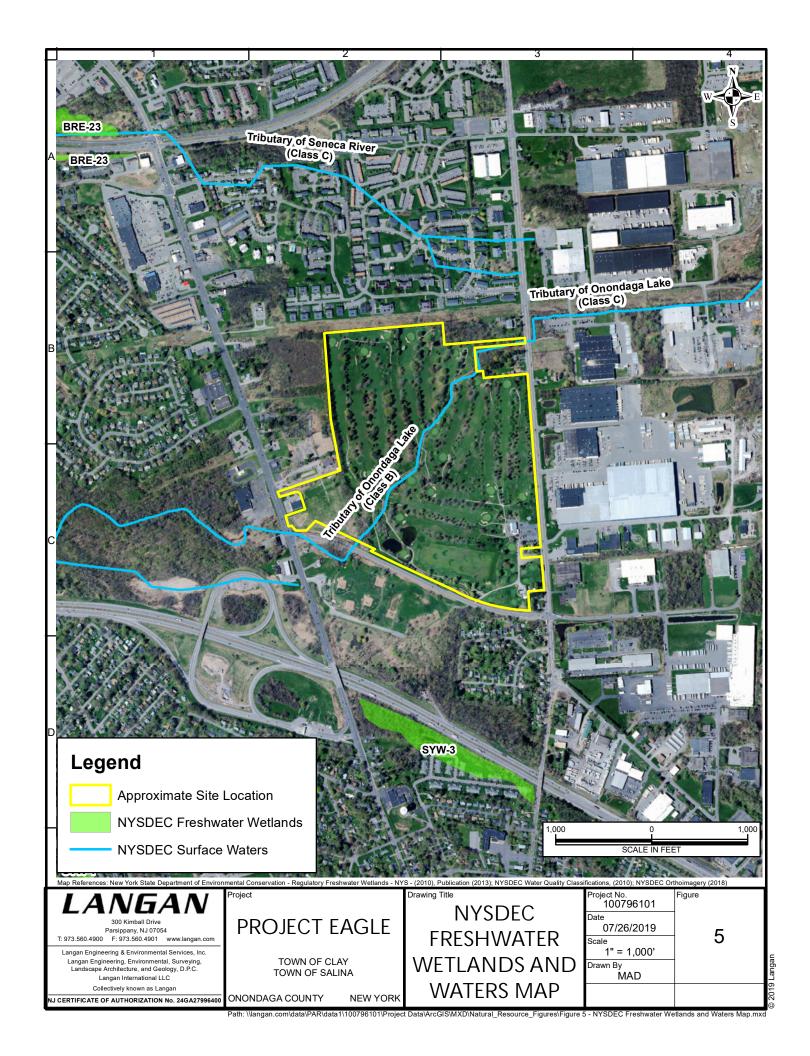
FIGURES

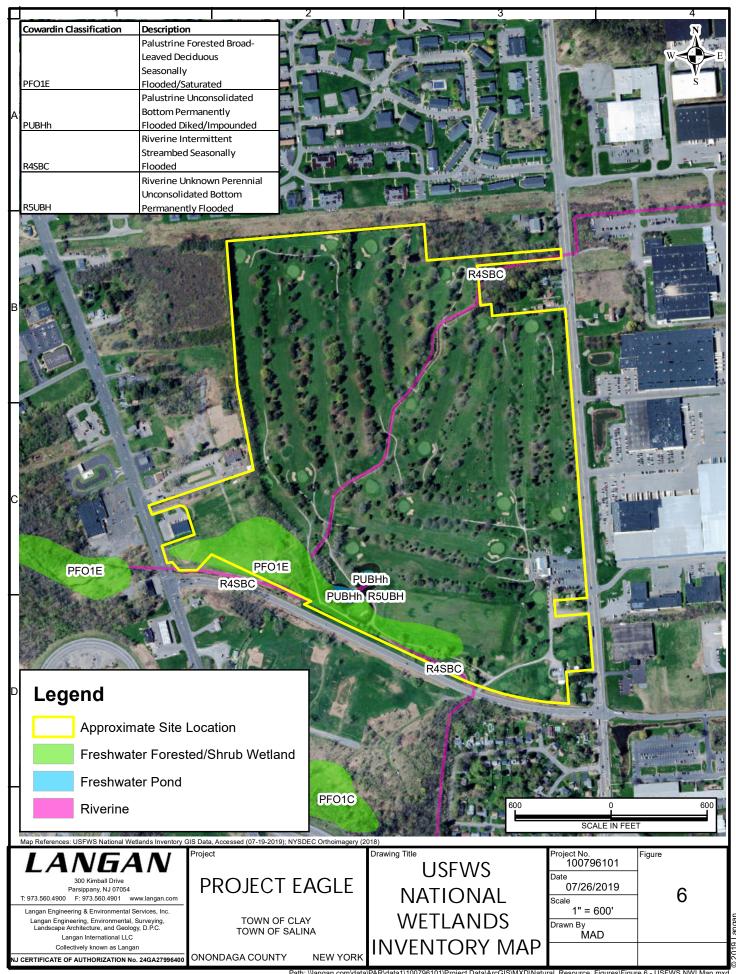


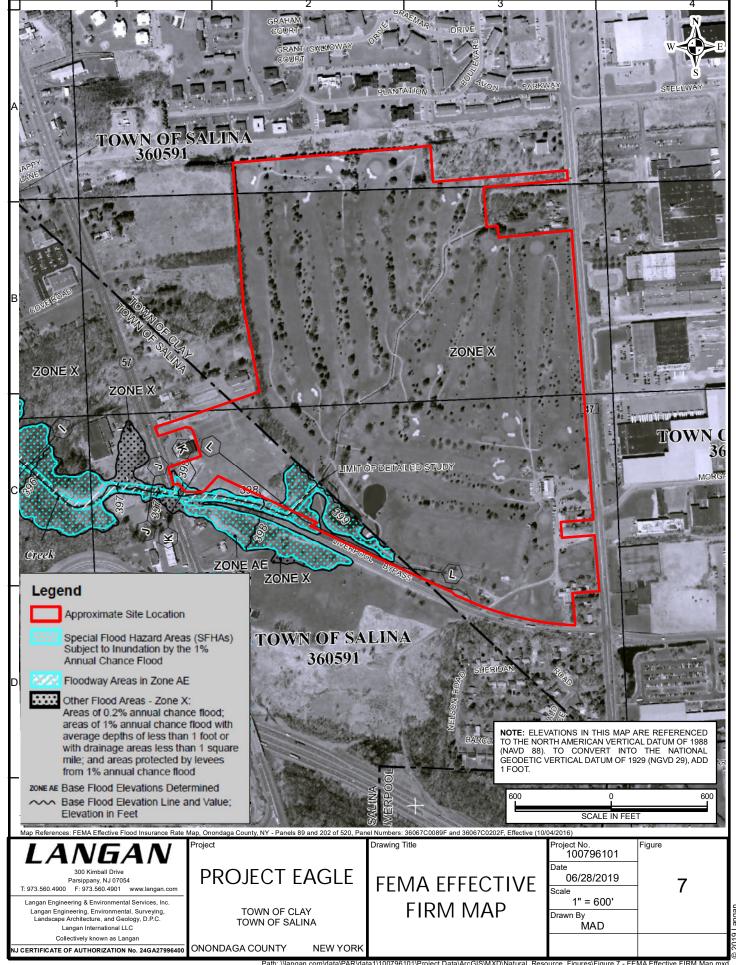


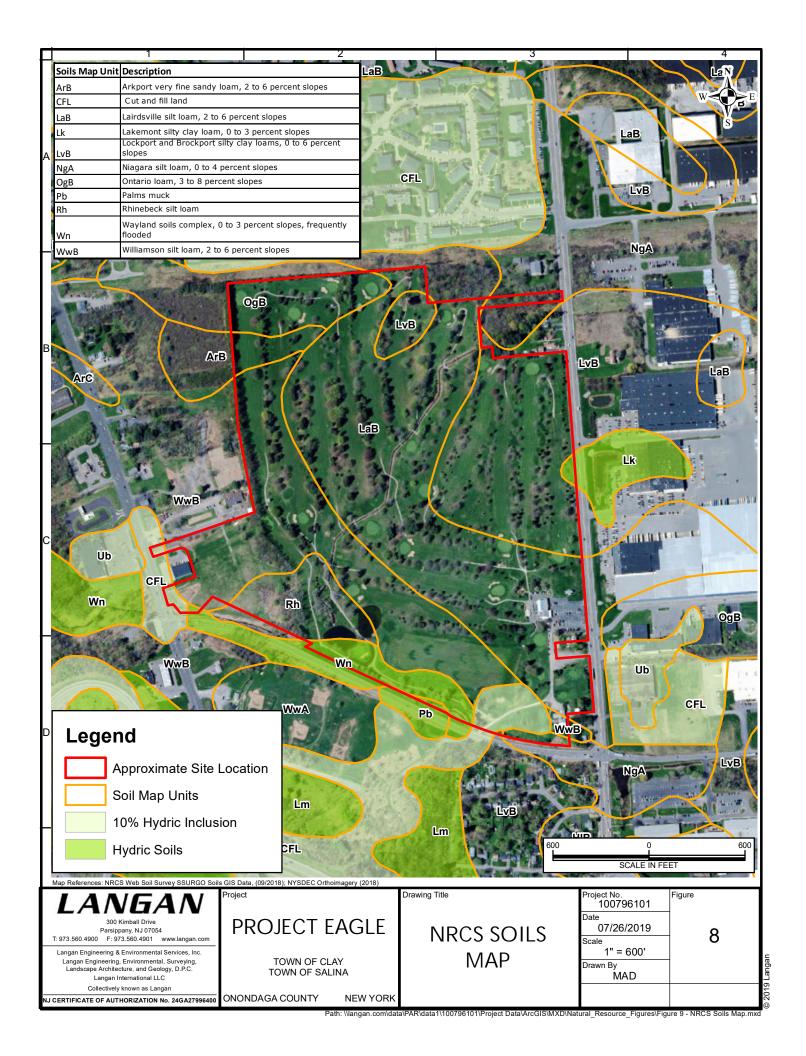






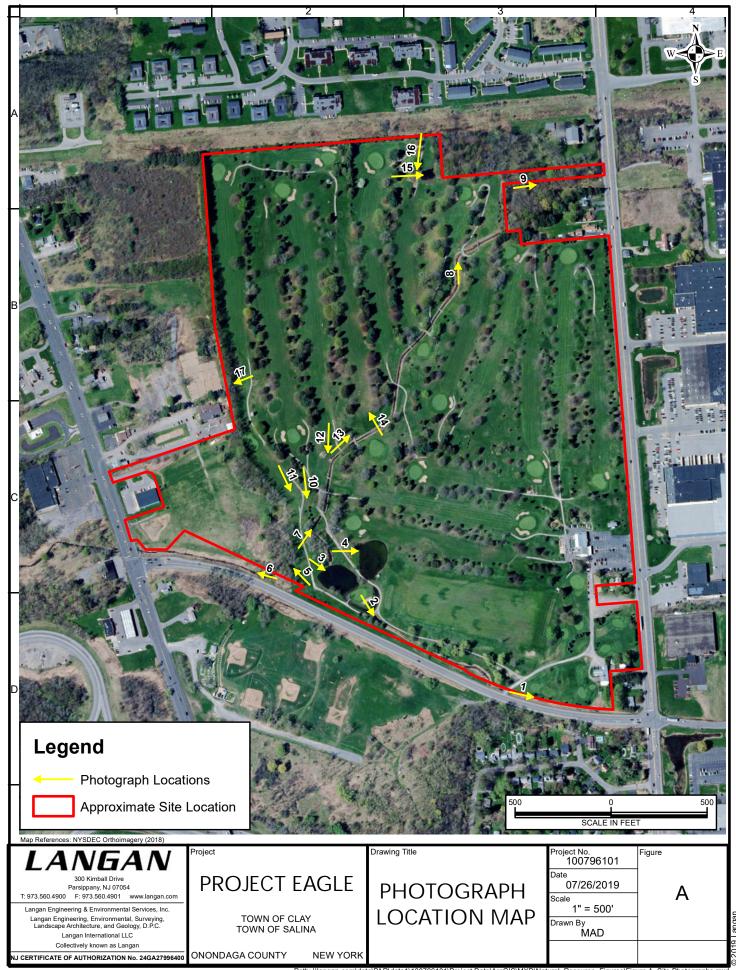






APPENDIX A

PHOTOGRAPH LOG AND PHOTOGRAPH LOCATION MAP





Photograph No. 1 – View of Wetland B near flag B22, facing west.



Photograph No. 2 – View of Wetland C near flag C17, facing east.



Photograph No. 3 – View of Pond D, facing southeast.



Photograph No. 4 – View of Pond F, facing east.



Photograph No. 5 – View of forested portion of Wetland E near flag E34, facing south.



Photograph No. 6 – View of Tributary of Onondaga Lake along the southern site boundary.



Photograph No. 7 – View of Stream A (Tributrary of Onondaga Lake) near flag G2, facing north.



Photograph No. 8 – View of Stream A (Tributary of Onondaga Lake) near flag G61, facing north.



Photograph No. 9 – View of Stream A (Tributary of Onondaga Lake) near flag G82, facing east.



Photograph No. 10 – View of Wetland H near flag H7, facing south.



Photograph No. 11 – View of Wetland I near flag I10, facing south.



Photograph No. 12 – View of Wetland J near flag J10, facing south.



Photograph No. 13 – View of Wetland K near flag K13, facing northeast.



Photograph No. 14 – View of Wetland L near flag L7, facing north.



Photograph No. 15 – View of Wetland M near flag M6, facing east.



Photograph No. 16 – View of Wetland N near flag N6, facing east.



Photograph No. 17 – View of Wetland P near flag P4, facing west.

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ATTACHMENT A FIELD DATA SHEETS

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block	Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2						
City/County: Town of Clay and Town of Salina / Onondaga County	Sampling Date: <u>07/12/2019</u>						
${\it Application/Owner:} \ \underline{\it TC\ Syracuse\ Development\ Associates,\ LLC\ } \ Stat$							
Investigator(s):Section	on, Township, Range:Town Of Clay and Town of Salina						
Landform (hillslope, terrace, etc.): Flat area Local re	lief (concave, convex, none): None Slope (%): 0 - 1%						
Subregion (LRR or MLRA): LRR L Lat: 43.1220	438° N Long: -76.2095833° W Datum: NYSPCS Central NAD 83						
Soil Map Unit Name: NgA - Niagara silt loam, 0 to 4 percent slopes NWI classification: N/A							
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.)							
Are Vegetation X, Soil , or Hydrology signif	icantly disturbed? Yes Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrology signif	icantly problematic? No (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No _X	Is the Sampled Area						
Hydric Soil Present? Yes No _X	Within a Wetland? Yes No _ X						
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate repo							
	and area, near Wetland B. The area consists of turf grass mowed/maintained as						
part of the golf course.	, , , , , , , , , , , , , , , , , , ,						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained	Leaves (B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna	(B13) Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits	(B15) Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulf	ide Odor (C1) Crayfish Burrows (C8)						
Sediment Deposits (B2) Oxidized Rhize	ospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of R	educed Iron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Recent Iron Re	eduction in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Sur	face (C7) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain	in Remarks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No _X _ Depth (inches):	N/A						
Water Table Present? Yes No _X Depth (inches):	N/A						
Saturation Present? Yes No _X _ Depth (inches):	N/A Wetland Hydrology Present? Yes No _X						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photometric production of the control of the contr	on proving inapportions) if quallable:						
, , , , , , , , , , , , , , , , , , , ,	os, previous inspections), ii available.						
Remarks:							
No indicators of wetland hydrology were observed during the site ins	pection						

VEGETATION – Use scientific names of plan	Sampling Point: DP-B UP		
<u>Tree Stratum</u> (Plot size:) 1. N/A		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species
2			That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 1 (B)
4.			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7		= Total Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15')			OBL species x 1 = FACW species x 2 = FAC species x 3 =
1. <u>N/A</u> 2			FACU species x 5 = UPL species x 5 =
3			Column Totals: (A)(B) Prevalence Index = B/A =
5			Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
		= Total Cover	Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5') 1. Turf Grass	100%	Y UPL	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2			Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
4 5			be present, unless disturbed or problematic. Definitions of Vegetation Strata:
6 7			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10 11 12.			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	100%	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:30') 1. N/A			
2			Hydrophytic Vegetation
4		= Total Cover	Present? Yes No _X
Remarks: (Include photo numbers here or on a separate	e sheet.)		
Vegetation consists of maintained turf grass associated	with the golf	course.	

SOIL Sampling Point: <u>DP-B UP</u>

Profile Desc	ription: (Describe to	the depth r	eeded to document t	the indicato	or or confi	rm the al	bsence of indicato	rs.)			
Depth											
(inches)	Color (moist)	<u> </u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks			
8 – 0	7.5YR 4/3	100%					Silt Loam				
8 - 16+	7.5YR 4/3	85%	7.5YR 5/6	15%	C	M	Silt Loam				
		<u> </u>									
		·				-					
		· —— -									
		· —— -									
		·									
		· —— -						_			
		· —— -									
	_	=									
¹Type: C=Co	oncentration, D=Deple	tion, RM=Re	educed Matrix, CS=Co	vered or Co	ated Sand	Grains.	² Location: PL=	Pore Lining, M=Matrix.			
Hydric Soil	Indicators:						Indicators for Prol	olematic Hydric Soils³:			
Histoso	Ι (Δ1)		Polyvalue Below	Surface (S	8) (I RR R		2 cm Muck (A	10) (IRRK I MIRA 149R)			
	pipedon (A2)		MLRA 149B)	Odridoo (O	o) (Eith it	,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
	,		,	oo (SO) (I DI	DD MID	A 1/0B)	Coast Prairie Redox (A16) (LRR K, L, R)				
	listic (A3)		Thin Dark Surface								
	en Sulfide (A4)		Loamy Mucky M		(LKK K, L	.)	Dark Surface (S7) (LRR K, L)				
· · · · · · · · · · · · · · · · · · ·	d Layers (A5)	(* ()	Loamy Gleyed N	, ,			Polyvalue Below Surface (S8) (LRR K, L)				
	d Below Dark Surface	(A11)	Depleted Matrix			•	Thin Dark Surface (S9) (LRR K, L)				
Thick D	ark Surface (A12)		Redox Dark Surf				Iron-Manganese Masses (F12) (LRR K, L, R)				
	Mucky Mineral (S1)		Depleted Dark S	Surface (F7)		•	Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy (Gleyed Matrix (S4)		Redox Depressi	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy F	Redox (S5)						Red Parent Material (TF2)				
Stripped	d Matrix (S6)					;	Very Shallow I	Dark Surface (TF12)			
Dark Su	ırface (S7) (LRR R, M	LRA 149B)					Other (Explain	in Remarks)			
³ Indicators of	f hydrophytic vegetation	on and wetla	nd hydrology must be p	present, unl	ess disturb	oed or pro	blematic.				
Restrictive I	Layer (if observed)										
Type:_			<u></u>								
Depth	(inches):					Hyd	dric Soil Present?	Yes No <u>X</u>			
Remarks:											
No indicators	s of hydric soils were o	bserved dur	ing the site inspection.								
	,										

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	and 37.2							
City/County: Town of Clay and Town of Salina / Onondaga County Sampling Date: 07/12/201	9							
Application/Owner: TC Syracuse Development Associates, LLC State: NY Sampling Point: DP-B	(WET)							
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina								
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): Concave Slope (%): 1%								
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N Long: -76.2095833° W Datum: NYSPCS Central NAD 83								
Soil Map Unit Name: NgA – Niagara silt loam, 0 to 4 percent slopes NWI classification: F								
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X	No (if no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly disturbed? No Are "N								
Are Vegetation, Soil, or Hydrology significantly problematic? No (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
	-							
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area								
Hydric Soil Present? Yes X No Within a Wetland?	Yes <u>X</u> No							
	nd Site ID: Wetland B							
Remarks: (Explain alternative procedures here or in a separate report.)								
This data point was taken in a wetland area near flag B19. This area is a wetland ditch.								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
X Surface Water (A1) Water-Stained Leaves (B9)	X Drainage Patterns (B10)							
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)							
	Crayfish Burrows (C8)							
X Water Marks (B1) Hydrogen Sulfide Odor (C1)								
X Water Marks (B1) Hydrogen Sulfide Odor (C1) X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)							
XSediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)XDrift Deposits (B3)Presence of Reduced Iron (C4)Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)Iron Deposits (B5)XThin Muck Surface (C7)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4)							
XSediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)XDrift Deposits (B3)Presence of Reduced Iron (C4)Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)Iron Deposits (B5)XThin Muck Surface (C7)XInundation Visible on Aerial Imagery (B7)Other (Explain in Remarks)Sparsely Vegetated Concave Surface (B8)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations:	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10"	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5)							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10"	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface Wetland Hydrology Includes capillary fringe)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface (includes capillary fringe) Wetland Hydrology in the Wetland Hydrology in the Wetland Present (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available remarks:	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water and the standard of	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No ilable: er, a high water table, soil saturation at the surface,							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface (includes capillary fringe) Wetland Hydrology in the Wetland Hydrology in the Wetland Present (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available remarks:	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No ilable: er, a high water table, soil saturation at the surface,							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water and the standard of	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No ilable: er, a high water table, soil saturation at the surface,							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water and the standard of	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No ilable: er, a high water table, soil saturation at the surface,							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water and the standard of	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No ilable: er, a high water table, soil saturation at the surface,							
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) X Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) X Thin Muck Surface (C7) X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 6"-10" Water Table Present? Yes X No Depth (inches): At surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Indicators of wetland hydrology observed during the site inspection include: 6" – 10" of standing water and the standard of	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) X Microtopographic Relief (D4) FAC-Neutral Test (D5) Present? Yes X No ilable: er, a high water table, soil saturation at the surface,							

VEGETATION – Use scientific names of plan	Sampling Point: DP-B WET			
Tree Stratum (Plot size: 30'	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:	
1. <u>N/A</u> 2			Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	
3. 4.			Total Number of Dominant Species Across All Strata: (B)	
5 6			Percent of Dominant Species That Are OBL, FACW, or FAC:	
7		= Total Cover	Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 15')			OBL species x 1 = FACW species x 2 =	
			FAC species x 3 =	
1. <u>N/A</u>			FACU species x 4 =	
2			UPL species x 5 =	
3			Column Totals: (A)(B)	
4 5			Prevalence Index = B/A =	
6.			Hydrophytic Vegetation Indicators:	
7			X Rapid Test for Hydrophytic Vegetation	
		= Total Cover	X Dominance Test is >50%	
	-		Prevalence Index is <3.01	
Herb Stratum (Plot size: 5'			Morphological Adaptations ¹ (Provide supporting	
1. Common Reed (Phragmites australis.)	95%	Y FACW	data in Remarks or on a separate sheet)	
2. Cattail (Typha angustifolia)		N OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Jewelweed (Impatiens capensis)		N FACW	1 Indicators of hydric soil and wetland hydrology must	
4. Smartweed (Persicaria spp.)		N FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
5			Definitions of Vegetation Strata:	
6				
7			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
8				
9			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
10 11			Herb - All herbaceous (non-woody) plants, regardless	
12			of size, and woody plants less than 3.28 ft tall.	
	135%	_ = Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot size: 30')				
1. <u>N/A</u>				
2				
3			Hydrophytic Vegetation	
4			Present? Yes X No	
		_ = Total Cover		
Remarks: (Include photo numbers here or on a separate	sheet.)			
Wetland vegetation was comprised of herbaceous species	es dominated	d by common reed.		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-7	7.5YR 3/2	94%	7.5YR 4/4	6%	<u>C</u>	<u>M</u>	Silty Clay	Saturated		
7 - 10	7.5YR 5/2	88%	7.5YR 5/8	12%	<u>C</u>	M	Silty Clay	Saturated		
10 - 16+	2.5Y 5/2	80%	2.5Y 5/6	20%	C	M	Silty Clay	Saturated		
		- <u> </u>								
	-	 -								
								_		
		- 								
								_		
¹Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, CS=Cov	vered or Coa	ated Sand	d Grains.	² Location: PL	=Pore Lining, M=Matrix.		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :										
Histoso	ıl (A1)		Polyvalue Below	Surface (S8	B) (LRR F	2,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	Histic Epipedon (A2) MLRA 149B)							e Redox (A16) (LRR K, L, R)		
Black H	listic (A3)		Thin Dark Surfac	e (S9) (LRF	R R, MLR	A 149B)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)		
Hydrog	en Sulfide (A4)		Loamy Mucky M	ineral (F1)	(LRR K, I	_)	Dark Surface (S7) (LRR K, L)			
Stratifie	ed Layers (A5)		Loamy Gleyed M	latrix (F2)			Polyvalue Below Surface (S8) (LRR K, L)			
Deplete	eted Below Dark Surface (A11) X Depleted Matrix (F3)						Thin Dark Surface (S9) (LRR K, L)			
Thick D	ark Surface (A12)		X Redox Dark Surf	ace (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy I	Mucky Mineral (S1)		Depleted Dark S	urface (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy	Gleyed Matrix (S4)		Redox Depression	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy I	Redox (S5)						Red Parent Material (TF2)			
Strippe	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	urface (S7) (LRR R, M	ILRA 149B)					Other (Expla	in in Remarks)		
³ Indicators o	f hydrophytic vegetation Layer (if observed)	on and wetlar	nd hydrology must be p	oresent, unle	ess distur	bed or pro	oblematic.			
Restrictive	Layer (ii observed)									
Type:										
Depth	(inches):					Ну	dric Soil Present	? Yes <u>X</u> No		
Remarks:										
Indicators of	hydric soils include a	Depleted Ma	trix and Redox Dark S	urface.						
	•									

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2							
City/County: Town of Clay and Town of Salina / Onondaga County Sa	mpling Date: <u>07/11/2019</u>						
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: <u>DP-C1 (UP)</u>						
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): None Slope (%): 0 - 1%							
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N	Long: -76.2095833° W Datum: NYSPCS Central NAD 83						
Soil Map Unit Name: Wn – Wayland soils complex, 0 to 3 percent slopes,	frequently flooded NWI classification: N/A						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.)							
Are Vegetation X, Soil , or Hydrology significantly of	disturbed? Yes Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrology significantly p							
SUMMARY OF FINDINGS – Attach site map showing sam							
Hydrophytic Vegetation Present? Yes NoX	Is the Sampled Area						
Hydric Soil Present? YesNoX	Within a Wetland? Yes No _X						
Wetland Hydrology Present? YesNoX	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)	1						
This data point was taken in the southern portion of the site in an upland are	a, near Wetland C. The area consists of turf grass frequently						
mowed/maintained as part of the golf course.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves	s (B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odd	or (C1) Crayfish Burrows (C8)						
Sediment Deposits (B2) Oxidized Rhizosphere	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced	Iron (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Recent Iron Reduction	n in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (C	7) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	narks) Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No _ X Depth (inches):N/A							
Water Table Present? YesNo _X Depth (inches): N/A							
Saturation Present? Yes No _X _ Depth (inches): N/A	Wetland Hydrology Present? Yes No _X_						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	L rious inspections), if available:						
Remarks:	,						
No indicators of wetland hydrology were observed during the site inspection.							
The initiation of motion rightnesses, were observed during the one inspection.							

VEGETATION – Use scientific names of plan	its.			Sampling Point: <u>DP-C1 UP</u>
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. <u>N/A</u>				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2.	-			
3				Total Number of Dominant Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0 (A/B)
7		= Total Cov		Prevalence Index worksheet:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size:15')				FACW species x 2 =
1. <u>N/A</u>				FAC species x 3 =
2				FACU species x 4 =
3.				UPL species x 5 =
4				Column Totals: (A)(B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	Dominance Test is >50%
				Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Turf grass	92%	<u> </u>	UPL	Problematic Hydrophytic Vegetation¹ (Explain)
2. Timothy Grass (Phleum pratense)	8%	N	FACU	Problematic Hydrophytic Vegetation* (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Versetation Strates
6				Definitions of Vegetation Strata:
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and
10				greater than 3.28 ft (1 m) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	100%	_ = Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')				
1. N/A				
2				
3				Hydrophytic
				Vegetation
4		= Total Co	over	Present? Yes No _X_
Remarks: (Include photo numbers here or on a separate	sheet)			
Vegetation consists of maintained turf grass associated v	,	COURSE		
vegetation consists of maintained turi grass associated t	with the golf	course.		

SOIL Sampling Point: <u>DP-C1 UP</u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox F	eatures						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks		
0 – 10	10YR 4/4	100%					Silt Loam			
<u> 10 - 16+</u>	10YR 4/4	65%	10YR 5/4	35%			Silt Loam			
										
							-			
							-			
							-			
							-			
							<u> </u>			
	_							_		
¹Type: C=Co	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.									
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :									
Histosol	(Δ1)		Polyvalue Below S	Surface (S	8) / I RR R		2 cm Muck (A10)) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B)	Juliace (S	o) (LIXIX IX	,				
			,	(S0) (I D I	DD MID	A 140B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	istic (A3)		Thin Dark Surface				-			
	en Sulfide (A4)		Loamy Mucky Min		(LKK K, L	.)	Dark Surface (S			
	d Layers (A5)	(444)	Loamy Gleyed Ma				Polyvalue Below Surface (S8) (LRR K, L)			
	d Below Dark Surface	(A11)	Depleted Matrix (F	•			Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)		Redox Dark Surfa				Iron-Manganese Masses (F12) (LRR K, L, R)			
-	Mucky Mineral (S1)		Depleted Dark Su				Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Gleyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
-	Redox (S5)						Red Parent Mat			
Stripped	Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	rface (S7) (LRR R, MI	LRA 149B)					Other (Explain in	n Remarks)		
	hydrophytic vegetatio	n and wetla	and hydrology must be pr	esent, unl	ess disturt	oed or pr	oblematic.			
Type:										
,, <u> </u>										
	(inches):					Ну	dric Soil Present?	Yes No _X		
Remarks:										
No indicators	of hydric soils were o	bserved du	ring the site inspection.							

\\langan.com\\data\\PAR\\data1\100796101\\Project Data_Discipline\\Natural Resources\\Reports\Attachment A - Field Data Sheets\DP-C1 (UP).docx

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2								
City/County: Town of Clay and Town of Salina / Onondaga County	Sampling Date: <u>07/11/2019</u>							
Application/Owner: TC Syracuse Development Associates, LLC State: 1	NY Sampling Point: DP-C1 (WET)							
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina								
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): Concave Slope (%): 1%								
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N Long: -76.2095833° W Datum: NYSPCS Central NAD 83								
	opes, frequently flooded NWI classification: PEM5F/PEM1E							
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes X No (if no, explain in Remarks.)							
	ntly disturbed? No Are "Normal Circumstances" present? Yes X No							
Are Vegetation, Soil, or Hydrology significa								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area							
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No							
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland C							
Remarks: (Explain alternative procedures here or in a separate report.)								
This data point was taken in a wetland area near flag C41. This area is	a wetland ditch with some adjacent herbaceous wetlands.							
·	,							
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
X Surface Water (A1) Water-Stained Le	eaves (B9) <u>X</u> Drainage Patterns (B10)							
X High Water Table (A2) Aquatic Fauna (B								
X Saturation (A3) Marl Deposits (B	15) Dry-Season Water Table (C2)							
X Water Marks (B1) Hydrogen Sulfide								
	oheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)							
X Drift Deposits (B3) Presence of Red								
	uction in Tilled Soils (C6) Geomorphic Position (D2)							
Iron Deposits (B5) X Thin Muck Surfac								
X Inundation Visible on Aerial Imagery (B7) Other (Explain in								
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes X No Depth (inches): 6"-1	10"							
Water Table Present? Yes X No Depth (inches): At surfa	ace							
Saturation Present? Yes X No Depth (inches): At Surfa								
(includes capillary fringe)	provide to increasional if a validable.							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, Remarks:	previous inspections), ii available.							
	ude: 6" 10" of standing water a high water table poil esturation at the surface							
	ude: 6" – 10" of standing water, a high water table, soil saturation at the surface,							
water marks, sediment deposits, drift deposits, inundation visible on aer	rial imagery, a thin muck surface, drainage patterns and microtopographic relief.							

VEGETATION – Use scientific names of plan	Sampling Point: DP-C1 WET				
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:		
1. <u>N/A</u> 2			Number of Dominant Species That Are OBL, FACW, or FAC: (A)		
3 4			Total Number of Dominant Species Across All Strata: (B)		
5			Percent of Dominant Species That Are OBL, FACW, or FAC:		
7		= Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by:		
			OBL species x 1 =		
Sapling/Shrub Stratum (Plot size: 15')			FACW species x 2 =		
			FAC species x 3 =		
1. <u>N/A</u>			FACU species x 4 =		
2.			UPL species x 5 =		
3			Column Totals: (A)(B)		
4			Prevalence Index = B/A =		
5			-		
6			Hydrophytic Vegetation Indicators:		
7			X Rapid Test for Hydrophytic Vegetation		
		= Total Cover	X Dominance Test is >50%		
			Prevalence Index is <3.01		
Herb Stratum (Plot size: 5') 1. Common Reed (<i>Phragmites australis</i>)	059/	V FACIM	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
		Y FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Swamp Thistle (Cirsium muticum)		N OBL			
3. <u>Jewelweed (Impatiens capensis)</u>		N FACW	¹ Indicators of hydric soil and wetland hydrology must		
4. Rough avens (Geum laciniatum)	5%	N FACW	be present, unless disturbed or problematic.		
5			Definitions of Vegetation Strata:		
6			Tree - Woody plants 3 in. (7.6 cm) or more in diameter		
7			at breast height (DBH), regardless of height.		
8					
9			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
10					
11			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
12	120%	_ = Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.		
Mondy Vino Stratum (Diet size: 20)					
Woody Vine Stratum (Plot size: 30')					
1. <u>N/A</u>					
2			Hadaan bada		
3			Hydrophytic Vegetation		
4			Present? Yes <u>X</u> No		
		_ = Total Cover			
Remarks: (Include photo numbers here or on a separate	e sheet.)				
Wetland vegetation was comprised of herbaceous speci	ies dominate	d by common reed.			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2	10YR 2/1	100%					Silty	Saturated Organics		
2 - 14+	10YR 2/1	100%					Silty/Muck	Saturated Silty Muck/Organics		
				· · · · · · · · · · · · · · · · · · ·						
				-		•				
				-			-			
				<u> </u>						
				<u> </u>			_			
		 -					-			
							-			
				<u> </u>			<u> </u>			
								_		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.										
Hydric Soil	Indicators:						Indicators for Pr	oblematic Hydric Soils³:		
Histoso	ol (A1)		Polyvalue Below	Surface (S	88) (LRR R	<u>!</u> _	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		MLRA 149B)	oundoo (c	, (L itit i	••,				
			,	- (CO) (LD	D D MID	A 440B)	Coast Prairie Redox (A16) (LRR K, L, R)			
X Black F			Thin Dark Surface							
	en Sulfide (A4)		Loamy Mucky Mi		(LRR K, L	-)	Dark Surface (S7) (LRR K, L)			
	ed Layers (A5)		Loamy Gleyed M				Polyvalue Below Surface (S8) (LRR K, L)			
Deplete	ed Below Dark Surface	(A11)	Depleted Matrix (F3)			Thin Dark Surface (S9) (LRR K, L)			
Thick D	Park Surface (A12)		Redox Dark Surfa	ace (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy	Mucky Mineral (S1)		Depleted Dark Su	urface (F7)	1		Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy	Gleyed Matrix (S4)		Redox Depressio	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy	Redox (S5)						Red Parent	Material (TF2)		
Strippe	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
	urface (S7) (LRR R, M l	LRA 149B)					Other (Explain in Remarks)			
			nd hydrology must be p	resent un	less distur	hed or pr		· · · · · · · · · · · · · · · · · · ·		
Restrictive	Layer (if observed)	and wone	man, and any and any		.ooo alota.		02.0			
Tumou										
Type.										
Depth	(inches):					Ну	dric Soil Present	? Yes <u>X</u> No		
Remarks:										
Indicators of hydric soils include a Black Histic.										

\\langan.com\\data\\PAR\\data1\100796101\\Project Data_Discipline\\Natural Resources\\Reports\Attachment A - Field Data Sheets\\DP-C1 (WET)_\Near C41.docx

Project /Site: Section 114, Block No.	1, Lot No. 2.3 /	Section 24, Block No. 1	, Lot Nos. 3.2, 4.2, 37.1 a	and 37.2		
City/County: Town of Clay and Town	of Salina / One	ondaga County Sa	ampling Date: <u>07/11/2019</u>)		
Application/Owner: TC Syracuse Dev	velopment Asso	ociates, LLC State: NY	_ Sampling Point: DP-C2	(UP)		
Investigator(s): CA		Section, Tow	nship, Range: <u>Town (</u>	Of Clay and Town of Salina		
Landform (hillslope, terrace, etc.):	Flat area	Local relief (cor	ncave, convex, none):	None Slope (%): 0 - 1%		
Subregion (LRR or MLRA): LRR L		Lat: 43.1220438° N	Long:76.2095833	3° W Datum: NYSPCS Central NAD 83		
Soil Map Unit Name: Wn – Wayland soils complex, 0 to 3 percent slopes, frequently flooded NWI classification: N/A						
Are climatic / hydrologic conditions o	n the site typica	al for this time of year?	Yes X	lo (if no, explain in Remarks.)		
Are Vegetation X, Soil	_, or Hydrology	/significantly of	disturbed? Yes Are "No	rmal Circumstances" present? Yes X No		
Are Vegetation, Soil	_, or Hydrology	/significantly p	problematic? No (If needs	ed, explain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area			
Hydric Soil Present?		No X	Within a Wetland?	Yes No <u>X</u>		
Wetland Hydrology Present?		No <u>X</u>	If yes, optional Wetland	I Site ID:		
Remarks: (Explain alternative proced			<u> </u>			
			and area, near Wetland 0	C. Vegetation consists of maintained turf grass		
associated with the golf course.	,					
Ü						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one i	s required; che	ck all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)		Water-Stained Leaves	s (B9)	Drainage Patterns (B10)		
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)		_ Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)		_ Hydrogen Sulfide Odd	or (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)		_ Oxidized Rhizosphere	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		_ Presence of Reduced	Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)		_ Recent Iron Reduction	n in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)		Thin Muck Surface (C	37)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Ima	gery (B7)	Other (Explain in Rem	narks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave S	urface (B8)			FAC-Neutral Test (D5)		
Field Observations:						
Surface Water Present? Yes	_No <u>X</u> De	pth (inches): N/A				
Water Table Present? Yes	_ No <u>X</u> Dep	oth (inches): N/A				
Saturation Present? Yes	_ No <u>X</u> Dep	oth (inches): N/A	Wetland Hydrology Pr	resent? Yes No X_		
(includes capillary fringe)						
Describe Recorded Data (stream gau	ige, monitoring	well, aerial photos, prev	/lous inspections), if availa	able:		
Remarks:						
No indicators of wetland hydrology w	ere observed d	luring the site inspection.				

VEGETATION – Use scientific names of plan	Sampling Point: DP-C2 UP		
Tree Stratum (Plot size: 30') 1. Willow Oak (Quercus phellos)	Absolute Dominant Indicator <u>% Cover Species? Status</u> 30% Y FACW	Dominance Test worksheet: Number of Dominant Species	
2		That Are OBL, FACW, or FAC: (A)	
3. 4.		Total Number of Dominant Species Across All Strata: 2 (B)	
5 6		Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)	
7	= Total Cover	Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size:15')		OBL species 0 x 1 = 0 FACW species 30 x 2 = 60	
		FAC species 0 x 3 = 0	
1. <u>N/A</u>		FACU species	
2		UPL species <u>100</u> x 5 = <u>500</u>	
3		Column Totals: <u>130</u> (A) <u>560</u> (B)	
4		Prevalence Index = B/A = 4.3	
5			
6		Hydrophytic Vegetation Indicators:	
7		Rapid Test for Hydrophytic Vegetation	
	= Total Cover	Dominance Test is >50%	
		Prevalence Index is <3.01	
Herb Stratum (Plot size: 5'	4000/ V LIDI	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1. Turf grass		Problematic Hydrophytic Vegetation ¹ (Explain)	
2			
3		¹ Indicators of hydric soil and wetland hydrology must	
4		be present, unless disturbed or problematic.	
5		Definitions of Vegetation Strata:	
6			
7		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
8		at breast neight (DBH), regardless of neight.	
9		Sapling/shrub - Woody plants less than 3 in. DBH and	
10		greater than 3.28 ft (1 m) tall.	
11 12.		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
	100% = Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot size: 30')			
1. <u>N/A</u>			
2		Hydrophytic	
3		Vegetation	
4		Present? Yes NoX	
	= Total Cover		
Remarks: (Include photo numbers here or on a separate	sheet.)		
Vegetation consists of maintained turf grass associated	with the golf course. Prevalence index	>3.	

SOIL Sampling Point: <u>DP-C2 UP</u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redox	Features					
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks	
0-9	10YR 5/4	100%					Silt Loam		
9+							_	Stony Refusal/Compact Refusal	
							<u> </u>		
							-		
							- -	_	
							<u> </u>		
							<u> </u>		
							<u> </u>		
							-	-	
							<u> </u>		
¹Type: C=Co	oncentration, D=Deplet	tion, RM=R	educed Matrix, CS=Cov	ered or Co	oated Sand	Grains.	² Location: PL	=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for Pr	oblematic Hydric Soils³:	
Histoso	Ι (Δ1)		Polyvalue Below	Surface (S	88) (I RR R		2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)	Curiaco (C	,o, (= ,t,t,t	,		e Redox (A16) (LRR K, L, R)	
			,	o (SO) (LB	DD MID	A 140B)			
	listic (A3)		Thin Dark Surfac						
	en Sulfide (A4)		Loamy Mucky Mi		(LKK K, L	.)	Dark Surface (S7) (LRR K, L)		
	d Layers (A5)		Loamy Gleyed M				Polyvalue Below Surface (S8) (LRR K, L)		
Deplete	d Below Dark Surface	(A11)	Depleted Matrix ((F3)			Thin Dark Surface (S9) (LRR K, L)		
Thick D	ark Surface (A12)		Redox Dark Surfa	ace (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy I	Mucky Mineral (S1)		Depleted Dark St	urface (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy (Gleyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy F	Redox (S5)						Red Parent I	Material (TF2)	
Stripped	d Matrix (S6)						Very Shallov	v Dark Surface (TF12)	
Dark Su	urface (S7) (LRR R, MI	LRA 149B)					Other (Expla	in in Remarks)	
			and hydrology must be p	resent, un	less disturb	oed or pr		,	
	Layer (if observed)		J G	,					
Type:_									
Depth	(inches):					Ну	dric Soil Present	? Yes No _X_	
Remarks:	· , .								
No indicators	s of hydric soils were of	bserved du	ring the site inspection.						

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Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, L	ot Nos. 3.2, 4.2, 37.1 and 37.2						
City/County: Town of Clay and Town of Salina / Onondaga County Samp	pling Date: 07/11/2019						
Application/Owner: TC Syracuse Development Associates, LLC State: NY Sampling Point: DP-C2 (WET)							
	Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina						
Landform (hillslope, terrace, etc.): Flat area Local relief (conca							
Subregion (LRR or MLRA): LRR L Lat: _43.1220438° N							
Soil Map Unit Name: Wn – Wayland soils complex, 0 to 3 percent slopes, fre	-						
Are climatic / hydrologic conditions on the site typical for this time of year?							
Are Vegetation, Soil, or Hydrology significantly dist							
Are Vegetation, Soil, or Hydrology significantly pro							
SUMMARY OF FINDINGS – Attach site map showing samp							
- Attach site map showing samp							
Livetrophytic Verentation Drescont? Ven V No. 1	lo the Commissi Area						
	Is the Sampled Area						
·	Within a Wetland? Yes X No						
	If yes, optional Wetland Site ID: Wetland C						
Remarks: (Explain alternative procedures here or in a separate report.)							
This data point was taken in a wetland area near flag C45. This area is an herb	paceous wetland adjacent to a wetland ditch.						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
X Surface Water (A1) Water-Stained Leaves (E	39) <u>X</u> Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
X Water Marks (B1) Hydrogen Sulfide Odor ((C1) Crayfish Burrows (C8)						
X Sediment Deposits (B2) Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced Iro	on (C4) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	ks) X Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:	<u> </u>						
Surface Water Present? Yes X No Depth (inches): 0"-1"							
Water Table Present? Yes No X Depth (inches): N/A							
	Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							
Indicators of wetland hydrology observed during the site inspection include: 0" – 1" of standing water, soil saturation at the surface, water marks,							
sediment deposits, drainage patterns and microtopographic relief.							

VEGETATION – Use scientific names of plan	Sampling Point: DP-C2 WET			
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
Eastern Cottonwood (Populus deltoides)	15%	Υ	· · · · · · · · · · · · · · · · · · ·	Number of Dominant Species
2. Willow Oak (Quercus phellos)		Υ		That Are OBL, FACW, or FAC: 4 (A)
3				Total Number of Dominant Species Across All Strata:
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6				
7		= Total Cov		Prevalence Index worksheet:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. <u>N/A</u>		·		FAC species x 3 =
2.				FACU species x 4 =
3.				UPL species x 5 =
4				Column Totals: (A)(B)
5				Prevalence Index = B/A =
6.				Hudronbutis Vocatation Indicators
				Hydrophytic Vegetation Indicators:
7		= Total Cov		X Rapid Test for Hydrophytic Vegetation
		= Total Cov	/ei	X Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5' 1. Common Reed (<i>Phragmites australis</i>)	50%	Y	EACW/	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Maintained grasses (mowed) (Fescue spp.)	50%			Problematic Hydrophytic Vegetation ¹ (Explain)
3. Jewelweed (Impatiens capensis)	20%			¹ Indicators of hydric soil and wetland hydrology must
4. Swamp Milkweed (Asclepias incarnate)		N		be present, unless disturbed or problematic.
5. Narrowleaf Cattail (Typha angustifolia)	<u>5%</u>	N	OBL	Definitions of Vegetation Strata:
6		-		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7		-		at breast height (DBH), regardless of height.
8				
9		-		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10				
11				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12	135%	= Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Weeds Vine Ottobury (District				
Woody Vine Stratum (Plot size: 30')				
1. <u>N/A</u>		-		
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
		_ = Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Wetland vegetation was comprised of herbaceous speci	es dominated	d by commo	n reed.	

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			eatures					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc2	Texture	Remarks	
0-9	10YR 4/2	85%	7.5YR 5/6	<u>15%</u>	C	M	Silty Clay	Saturated	
9 - 15+	7.5YR 4/2	90%	7.5YR 5/6	10%	<u> </u>	M	Silty Clay	Saturated	
							·		
							· 		
							·		
							· -		
¹Type: C=Co	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil I	Indicators:						Indicators for P	roblematic Hydric Soils³:	
Histosol	I (A1)		Polyvalue Below S	Surface (S	8) (I RR R		2 cm Muck	(A10) (I RR K. I. MI RA 149B)	
	pipedon (A2)		MLRA 149B)	Sarrass (S	o) (Litter)	,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)		
			,	. (CO) (I DI	D MID	A 140B)			
	istic (A3)		Thin Dark Surface						
	en Sulfide (A4)		Loamy Mucky Mir		(LKK K, L	-)	Dark Surface (S7) (LRR K, L)		
	d Layers (A5)		Loamy Gleyed Ma				Polyvalue Below Surface (S8) (LRR K, L)		
	d Below Dark Surface	e (A11)	X Depleted Matrix (F				Thin Dark Surface (S9) (LRR K, L)		
Thick D	ark Surface (A12)		Redox Dark Surfa	ice (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy N	Mucky Mineral (S1)		Depleted Dark Su	ırface (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy 0	Gleyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy F	Redox (S5)						Red Parent	Material (TF2)	
Stripped	d Matrix (S6)						Very Shallow Dark Surface (TF12)		
Dark Su	ırface (S7) (LRR R, M	ILRA 149B)				Other (Expla	ain in Remarks)	
³ Indicators of	f hydrophytic vegetation	on and wetl	and hydrology must be pr	resent, unl	ess disturl	oed or pro	oblematic.		
Restrictive I	_ayer (if observed)								
Type:_									
Donth	(inches):					U .,	dric Soil Present	:? Yes <u>X</u> No	
Берш	(inches):					119	and Son Fresent	1: 165 <u>X</u> NO	
Remarks:									
Indicators of hydric soils include a Depleted Matrix.									

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2						
City/County: Town of Clay and Town of Salina / Onondaga County Sampling Da	ite: <u>07/11/2019</u>					
Application/Owner: TC Syracuse Development Associates, LLC State: NY Sampling Point: DP-E1 (WET)						
Investigator(s): CA Section, Township, Ran	nge:Town Of Clay and Town of Salina					
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, con	vex, none): Concave Slope (%): 1%					
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N Long:	-76.2095833° W Datum: NYSPCS Central NAD 83					
Soil Map Unit Name: Rh – Rhinebeck silt loam	NWI classification: PFO1E/PEM1E					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	X No (if no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturbed?	No Are "Normal Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydrology significantly problemation	c? No (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling p	oint locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No Is the S	ampled Area					
Hydric Soil Present? Yes X No Within a	a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No If yes, o	ptional Wetland Site ID: Wetland E					
Remarks: (Explain alternative procedures here or in a separate report.)						
This data point was taken in a wetland area near flag E42. This area is a forested wetl-	and with a dense herbaceous understory.					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) Water-Stained Leaves (B9)	X Drainage Patterns (B10)					
High Water Table (A2) ———————————————————————————————————	Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)	Moss Hill Ellies (BT0) Dry-Season Water Table (C2)					
X Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)					
X Sediment Deposits (B2)Oxidized Rhizospheres on Living						
Oxidized KritzOspiteles on Elving						
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	Soils (C6) Stunted or Stressed Plants (D1) Soils (C6) Geomorphic Position (D2)					
Algal Mat 01 Clust (B4) Recent Iron Neduction III Third (CT)	Shallow Aquitard (D3)					
						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	X Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations: Surface Water Present? Yes X No Depth (inches): 0"-1"						
Surface Water Present? Yes X No Depth (inches): 0"-1" Water Table Present? Yes No X Depth (inches): N/A						
	d Hydrology Present? Yes X No					
(includes capillary fringe)	Trydrology Fresent: Tes X No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ctions), if available:					
Remarks:						
Indicators of wetland hydrology observed during the site inspection include: $0"-1"$ of s	standing water, soil saturation at the surface, water marks,					
sediment deposits, drainage patterns and microtopographic relief.						

VEGETATION – Use scientific names of plan	Sampling Point: DP-E1 WET			
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
Green Ash (Fraxinus pennsylvanica) 2.	75%	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3 4				Total Number of Dominant Species Across All Strata: (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
7		= Total Cov		Prevalence Index worksheet:
Cooling/Chrub Stratum (Diot airc) 15'				OBL species x 1 = FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')				FAC species x 3 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
7				X Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	X Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Lizard's Tail (Saururus cernuus)	60%	<u>Y</u>	OBL	
2. Swamp Goldenrod (Solidago patula)	20%	Y	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Common reed (Phragmites australis)	15%			1 in diseases of budgies and questioned budgets on an unit
4. Jewelweed (Impatiens capensis)		N		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Gray's Sedge (Carex grayi)	15%			<u> </u>
6. Green Bulrush (<i>Scirpus atrovirens</i>)	10%		<u> </u>	Definitions of Vegetation Strata:
7. Eastern Poison Ivy (Toxicodendron radicans)	10%			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and
10				greater than 3.28 ft (1 m) tall.
11 12.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	145%	= Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')				
1. <u>N/A</u>				
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
		_ = Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Wetland vegetation was comprised of a variety of herbac	ceous specie	S.		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox F	eatures						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks		
0-7	10YR 3/2	88%	10YR 5/6	12%	C	M	Silty Clay	Saturated		
<u>7 – 16+</u>	10YR 4/1	85%	10YR 5/6	15%	<u> </u>	<u>M</u>	Clay	Saturated		
		· -								
		· -								
		· —— -								
		·								
		·								
¹Type: C=C	oncentration, D=Deple	tion, RM=Re	educed Matrix, CS=Cove	ered or Coa	ated Sand	d Grains.	² Location: Pl	L=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for Pi	roblematic Hydric Soils³:		
Histoso	J (A1)		Polyvalue Below S	Surface (SS	R) / I DD D	,	2 cm Muck /	(A10) (LRR K, L, MLRA 149B)		
	Epipedon (A2)		MLRA 149B)	Juliace (Sc	o) (LIXIX IX	٠,		, , , , , ,		
			,	(CO) (LDE	D MID	A 440B)	Coast Prairie Redox (A16) (LRR K, L, R)			
	listic (A3)		Thin Dark Surface				-	Peat or Peat (S3) (LRR K, L, R)		
	en Sulfide (A4)		Loamy Mucky Min		(LRR K, L	-)		e (S7) (LRR K, L)		
	ed Layers (A5)		Loamy Gleyed Ma				Polyvalue Below Surface (S8) (LRR K, L)			
-	ed Below Dark Surface	(A11)	X Depleted Matrix (F				Thin Dark Surface (S9) (LRR K, L)			
	Park Surface (A12)		X Redox Dark Surfa				Iron-Manganese Masses (F12) (LRR K, L, R)			
-	Mucky Mineral (S1)		Depleted Dark Su				Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Gleyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy I	Redox (S5)						Red Parent	Material (TF2)		
Strippe	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	urface (S7) (LRR R, M	LRA 149B)					Other (Expla	ain in Remarks)		
³ Indicators o	f hydrophytic vegetation Layer (if observed)	on and wetlar	nd hydrology must be pr	esent, unle	ess distur	bed or pro	blematic.			
_	,									
	(inches):					Hv/	dric Soil Present	? Yes <u>X</u> No		
Remarks:	(mones).					1119	and don't resem	163 <u>X</u> 110		
Indicators of	hydric soils include a	Depleted Ma	trix and a Redox Dark S	Surface.						

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No.	. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2				
City/County: Town of Clay and Town of Salina / Onondaga County	Sampling Date: <u>07/11/2019</u>				
Application/Owner: TC Syracuse Development Associates, LLC State: NY Sampling Point: DP-E2 (WET)					
Investigator(s):CASection, Township, Range:Town Of Clay and Town of Salina					
	concave, convex, none): Concave Slope (%): 1%				
	N Long: -76.2095833° W Datum: NYSPCS Central NAD 83				
	es, frequently flooded NWI classification: PEM5F/PEM1E				
Are climatic / hydrologic conditions on the site typical for this time of year?					
	y disturbed? No Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrology significantl					
	impling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland E				
Remarks: (Explain alternative procedures here or in a separate report.)	7,				
This data point was taken in a wetland area near flag E64. This area is a	wetland ditch (a.k.a. Tributary to Onondaga Lake)				
This data point was taken in a welland area near may 204. This area is a	venture after (a.k.a. Pribatary to Choriologa Lake).				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
X Surface Water (A1) Water-Stained Leav	ves (B9) <u>X</u> Drainage Patterns (B10)				
X High Water Table (A2) Aquatic Fauna (B13	Moss Trim Lines (B16)				
X Saturation (A3) Marl Deposits (B15	Dry-Season Water Table (C2)				
X Water Marks (B1) Hydrogen Sulfide C	dor (C1) Crayfish Burrows (C8)				
X Sediment Deposits (B2) Oxidized Rhizosphe	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
X Drift Deposits (B3) Presence of Reduc	ed Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduct	ion in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface	(C7) Shallow Aquitard (D3)				
X Inundation Visible on Aerial Imagery (B7) Other (Explain in R	emarks) <u>X</u> Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes X No Depth (inches): 6"-10"					
Water Table Present? Yes X No Depth (inches): At surface	<u>, </u>				
Saturation Present? Yes X No Depth (inches): At Surface (includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:				
Remarks:					
	e: 6" – 10" of standing water, a high water table, soil saturation at the surface,				
water marks, sediment deposits, drift deposits, inundation visible on aeria	imagery, a thin muck surface, drainage patterns and microtopographic relief.				

VEGETATION – Use scientific names of plan	Sampling Point: DP-E2 WET			
<u>Tree Stratum</u> (Plot size:30') 1. <u>N/A</u>		Dominant Species?		Dominance Test worksheet: Number of Dominant Species
2				That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant
3 4				Species Across All Strata: 2 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 = FAC species x 3 =
Silky Dogwood (Cornus amomum)	10%	Y	FACW	FACU species x 4 =
2				UPL species x 5 =
3		-		Column Totals: (A)(B)
4. 5.				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				X Rapid Test for Hydrophytic Vegetation
	10%	_ = Total Co	over	X Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Common Reed (Phragmites australis)			FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Jewelweed (Impatiens capensis)	10%	<u>N</u>	FACW	robbinatio riyarophytio vegetation (Explain)
3. 4.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5			-	Definitions of Variation Strate.
6				Definitions of Vegetation Strata:
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		-		
9				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10 11				Herb - All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	110%	_ = Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30'				
1. <u>N/A</u>				
2				
3				Hydrophytic
4				Vegetation Present? Yes X No
		= Total Co	over	1103CH1: 103 <u>X</u> 110 <u></u>
Remarks: (Include photo numbers here or on a separate	sheet.)			
Wetland vegetation was comprised of herbaceous species	es dominated	d by commo	n reed.	

SOIL

Sampling	Daint	DD E2	WET
Sambling	Point:	DP-EZ	VV⊏I

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			Features					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-3	10YR 2/1	100%					Silty	Saturated Organics	
3 - 14+	10YR 2/1	100%					Silty/Muck	Saturated Silty Muck/Organics	
¹Type: C=Co	oncentration, D=Deple	tion, RM=Re	educed Matrix, CS=Cov	ered or Co	ated Sand	Grains.	² Location: Pl	L=Pore Lining, M=Matrix.	
Hydric Soil I	Indicators:						Indicators for Pr	oblematic Hydric Soils³:	
Histosol	Ι (Λ1)		Polyvalue Below	Surface (S	9) /I DD D		2 cm Muck ((A10) (I PP K I MI PA 140P)	
	pipedon (A2)		MLRA 149B)	Surface (S	O) (LKK K,	1	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)		
			,	o (SO) (LBI	D D MI D /	140B)			
X Black H			Thin Dark Surfac				-	Peat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		Loamy Mucky Mi		(LKK K, L)		ce (S7) (LRR K, L)	
· · · · · · · · · · · · · · · · · · ·	d Layers (A5)	(044)	Loamy Gleyed M	, ,			-	elow Surface (S8) (LRR K, L)	
	d Below Dark Surface	(A11)	Depleted Matrix (urface (S9) (LRR K, L)	
	ark Surface (A12)		Redox Dark Surf				Iron-Manganese Masses (F12) (LRR K, L, R)		
	Mucky Mineral (S1)		Depleted Dark St				Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	Gleyed Matrix (S4)		Redox Depression	ons (F8)			Red Parent Material (TF2)		
-	Redox (S5)							,	
	d Matrix (S6)						Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
	urface (S7) (LRR R, M							ain in Remarks)	
Restrictive L	hydrophytic vegetation had been been been been been been been bee	on and wetla	nd hydrology must be p	oresent, unl	ess disturb	ed or pro	oblematic.		
Type:_									
Depth	(inches):					Ну	dric Soil Present	? Yes <u>X</u> No	
Remarks:									
Indicators of hydric soils include a Black Histic.									
indicators of	Tryunc sons include a	Diack Histic.							

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2										
City/County: Town of Clay and Town of Salina / Onondaga County Sampling Date: 07/12/2019										
Application/Owner: TC Syracuse Development Associates, LLC State: NY Sampling Point: DP-H (UP)										
Investigator(s): CA	Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina									
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): None Slope (%): 0 - 1%										
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N Long: -76.2095833° W Datum: NYSPCS Central NAD 83 Soil Map Unit Name: Rh – Rhineback silt loam NWI classification: N/A										
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.)										
Are Vegetation X, Soil , or Hydrology significantly disturbed? Yes Are "Normal Circumstances" present? Yes X No										
Are Vegetation, Soil, or Hydrology significantly disturbed: Tes Are Normal Circumstances present: Tes No										
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
		F 9 F 1000,								
Hydrophytic Vegetation Present? Yes	NoX	Is the Sampled Area								
• • •	NoX	Within a Wetland? Yes NoX								
	NoX	If yes, optional Wetland Site ID:								
Remarks: (Explain alternative procedures										
		area, near Wetland H. Vegetation consists of maintained turf grass								
associated with the golf course.	tern portion of the site in an upland	area, near welland it. Vegetation consists of maintained tun grass								
associated with the gon course.										
HYDROLOGY										
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)								
Primary Indicators (minimum of one is requ	uired; check all that apply)	Surface Soil Cracks (B6)								
Surface Water (A1)	Water-Stained Leaves	(B9) Drainage Patterns (B10)								
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)								
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)								
Water Marks (B1)	Hydrogen Sulfide Odor	(C1) Crayfish Burrows (C8)								
Sediment Deposits (B2)	Oxidized Rhizospheres	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)								
Drift Deposits (B3)	Presence of Reduced	ron (C4) Stunted or Stressed Plants (D1)								
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6) Geomorphic Position (D2)								
Iron Deposits (B5)	Thin Muck Surface (C7									
Inundation Visible on Aerial Imagery										
Sparsely Vegetated Concave Surface		FAC-Neutral Test (D5)								
Field Observations:	1									
	X Depth (inches): N/A									
	X Depth (inches): N/A									
		Matland Hudralogy Drocont2 Voc No V								
Saturation Present? Yes No (includes capillary fringe)	X Depth (inches): N/A	Wetland Hydrology Present? Yes No _X_								
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos, previ	ous inspections), if available:								
Remarks:										
No indicators of wetland hydrology were of	bserved during the site inspection.									

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30'	% Cover	Species?	Status	
1. <u>N/A</u>				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				
3				Total Number of Dominant Species Across All Strata: 1 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6				That Are OBL, FACW, or FAC.
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
				FAC species x 3 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A)(B)
4				Prevalence Index = B/A =
5				
6				<u>Hydrophytic</u> Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	Dominance Test is >50%
				Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Turf grass		<u> </u>		Problematic Hydrophytic Vegetation ¹ (Explain)
2. White clover (<i>Trifoilum repens</i>)	5%		<u>FACU</u>	<u> </u>
3. <u>Creeping Charlie (Glechoma hederacea)</u>	3%	<u>N</u>	<u>FACU</u>	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				at breast neight (BBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and
10				greater than 3.28 ft (1 m) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
12				of size, and woody plants less than 3.28 ft tall.
	100%	_ = Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')				
1. <u>N/A</u>				
2				
3				Hydrophytic
4				Vegetation Present? Yes No _X_
		_ = Total Co	ver	100 <u>X</u>
Remarks: (Include photo numbers here or on a separate	sheet.)			
This is in a maintained lawn portion of the golf course ne	,	NV.		
a mamamod lawn portion of the gon course he	to a rail we	٠,٠		

Sampling Point: **DP-H UP**

SOIL Sampling Point: <u>DP-H UP</u>

Profile Desc	cription: (Describe to	the depth r	needed to document	the indicato	r or conf	irm the a	bsence of indicat	tors.)		
Depth	Matrix			x Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-7	10YR 4/4	100%					SiL	Silt Loam		
7-16+	10YR 4/4	60%	10YR 5/4	40%			SiL	Silt Loam		
							-			
-							-			
		· —— -								
		·								
		·						_		
							-			
-							-			
		- 					-			
¹ Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, CS=Co	overed or Co	ated Sand	d Grains.	² Location: PL	=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for Pr	oblematic Hydric Soils³:		
Histoso	J (A1)		Polynyaluo Rolom	v Surface (S	9) / I DD B	,	2 cm Muck (A10) (I DD K I MI DA 140D)		
Histoso			Polyvalue Below	v Suriace (S	o) (LKK K	ι,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)			
	listic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 149							
	en Sulfide (A4)		Loamy Mucky M		(LRR K, I	_)	Dark Surface (S7) (LRR K, L)			
· <u>······</u>	ed Layers (A5)		Loamy Gleyed Matrix (F2)				Polyvalue Below Surface (S8) (LRR K, L)			
	ed Below Dark Surface	(A11)	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)			
Thick Dark Surface (A12)			Redox Dark Sur	face (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy I	Mucky Mineral (S1)		Depleted Dark Surface (F7)				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy	Gleyed Matrix (S4)		Redox Depressions (F8)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy I	Redox (S5)						Red Parent Material (TF2)			
Strippe	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	urface (S7) (LRR R, M	LRA 149B)					Other (Explain in Remarks)			
³ Indicators o	f hydrophytic vegetation	on and wetla	nd hydrology must be	present, unle	ess distur	bed or pro	oblematic.			
Restrictive	Layer (if observed)									
Type:										
Denth	(inches):					Hv	Hydric Soil Present? Yes No X			
Бериі	(11161163).					119	unc son riesent	163 NO_X_		
Remarks:	f		: th							
No indicators	s of hydric soils were o	observed dur	ing the site inspection							

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1,	Lot Nos. 3.2, 4.2, 37.1 and 37.2									
City/County: Town of Clay and Town of Salina / Onondaga County Sampling Date: 07/12/2019										
Application/Owner: TC Syracuse Development Associates, LLC State: NY Sampling Point: DP-H (WET)										
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina										
Landform (hillslope, terrace, etc.): Flat area Local relief (con	cave, convex, none): Concave Slope (%): 1%									
Subregion (LRR or MLRA): <u>LRR L</u> Lat: <u>43.1220438° N</u>	Long: -76.2095833° W Datum: NYSPCS Central NAD 83									
Soil Map Unit Name: Rh – Rhineback silt loam	NWI classification: PEM1E									
Are climatic / hydrologic conditions on the site typical for this time of year?	YesX No (if no, explain in Remarks.)									
Are Vegetation X, Soil , or Hydrology significantly d	listurbed? Yes Are "Normal Circumstances" present? Yes X No									
Are Vegetation, Soil, or Hydrology significantly problematic? No (If needed, explain any answers in Remarks.)										
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area									
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No									
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland H									
Remarks: (Explain alternative procedures here or in a separate report.)										
This data point was taken in a wetland area near flag H12. This area is a ma	intained (mowed) herbaceous wetland.									
HYDROLOGY										
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)									
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)									
Surface Water (A1)Water-Stained Leaves	(B9) X Drainage Patterns (B10)									
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)									
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)									
X Water Marks (B1) Hydrogen Sulfide Odo										
X Sediment Deposits (B2) Oxidized Rhizosphere										
Drift Deposits (B3) Presence of Reduced										
Algal Mat or Crust (B4) Recent Iron Reduction										
Iron Deposits (B5) Thin Muck Surface (C										
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem										
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)									
Field Observations:										
Surface Water Present? Yes No _ X _ Depth (inches): N/A										
Water Table Present? Yes No _X Depth (inches): N/A										
Saturation Present? Yes No _ X Depth (inches): N/A	Wetland Hydrology Present? Yes X No									
(includes capillary fringe)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev Remarks:	ous inspections), il available.									
	water marks, and import deposits, approach, vegetated conceive ourfoce									
Indicators of wetland hydrology observed during the site inspection include:										
drainage patterns and microtopographic relief. Wetland H drains directly into	Stream A via overland now.									

	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>	% Cover	Species?	Status	
1. <u>N/A</u>				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2	-			,
3				Total Number of Dominant Species Across All Strata: (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6				That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
				FAC species x 3 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
6				<u>Hydrophytic</u> Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Maintained Grasses (mowed) (Fescue spp.)		Y		X Problematic Hydrophytic Vegetation ¹ (Explain)
2. White Clover (<i>Trifolium repens</i>)	8%	Y	FACU	Troblematic Hydrophytic Vegetation (Explain)
3. Common Plantain (Plantago major)	4%	Y	FACU	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Deminions of Vegetation Otrata.
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and
10				greater than 3.28 ft (1 m) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
12				of size, and woody plants less than 3.28 ft tall.
		_ = Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:30')				
, , , , , , , , , , , , , , , , , , , ,				
1. <u>N/A</u>				
2				Hydrophytia
3				Hydrophytic Vegetation
4				Present? Yes <u>X</u> No
		_ = Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
This wetland area was comprised of maintained grasses	(mowed) Fe	escue spp. Ir	ndicators of h	ydrology and hydric soils were met.

Sampling Point: **DP-H WET**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redox F	eatures							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-7	10YR 4/2	90%	5YR 4/6	10%	<u>C</u>	<u>M</u>	Silty Loam				
7 – 10	10YR 6/6	65%					Silty Loam				
	10YR 6/3	35%					Silty Loam				
10 – 16+	Gley1 5/10Y	70%	10YR 6/6	12%	<u>C</u>	M	Clay	Dense Clay			
10YR 4/118%							Clay	Dense Clay			
		<u> </u>									
		. <u> </u>									
-		<u> </u>									
		<u> </u>									
		_									
		<u> </u>	_	·				_			
¹Type: C=C	oncentration, D=Deple	etion, RM=Red	duced Matrix, CS=Cove	ered or Coa	ated San	d Grains	Location: PL				
Hydric Soil								oblematic Hydric Soils ³ :			
_			Polyvalue Below \$	Surface (SS	o) /I DD E						
Histoso	Epipedon (A2)	_	MLRA 149B)	Surface (Sc) (LKK F	ζ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
	listic (A3)		Thin Dark Surface	(S9) (LRR	R MIR	A 149R	Coast Prairie Redox (A16) (LRR K, L, R) B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	en Sulfide (A4)	_	Loamy Mucky Mir				Dark Surface (S7) (LRR K, L)				
	ed Layers (A5)	X Loamy Gleyed Matrix (F2)				Polyvalue Below Surface (S8) (LRR K, L)					
			X Depleted Matrix (F				Thin Dark Surface (S9) (LRR K, L)				
Thick Dark Surface (A12)			Redox Dark Surfa	ce (F6)				ese Masses (F12) (LRR K, L, R)			
Sandy Mucky Mineral (S1)			Depleted Dark Surface (F7)				Piedmont Flo	oodplain Soils (F19) (MLRA 149B)			
Sandy Gleyed Matrix (S4)			Redox Depression	ns (F8)			Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)			
Sandy I	Redox (S5)						Red Parent I	Material (TF2)			
Strippe	d Matrix (S6)						Very Shallov	v Dark Surface (TF12)			
	urface (S7) (LRR R, M							in in Remarks)			
	f hydrophytic vegetation Layer (if observed)	on and wetlan	d hydrology must be pr	resent, unle	ess distur	bed or p	problematic.				
_											
Type:											
Depth	(inches):		<u> </u>			Н	lydric Soil Present	? Yes <u>X</u> No			
Remarks:						I					
Indicators of	hydric soils include a	Loamy Gleye	d Matrix and a Deplete	d Matrix.							
Indicators of hydric soils include a Loamy Gleyed Matrix and a Depleted Matrix.											

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2							
City/County: Town of Clay and Town of Salina / One	ondaga County San	mpling Date: <u>07/12/2019</u>					
Application/Owner: TC Syracuse Development Asso	ociates, LLC State: NY	Sampling Point: DP-I (UP	9)				
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): Elevated Slope (%): 0 - 1%							
Subregion (LRR or MLRA): LRR L	Lat: <u>43.1220438° N</u>	Long:76.2095833°	W Datum: NYSPCS Central NAD 83				
Soil Map Unit Name: Rh – Rhineback silt loam		<u>N</u> WI classifica	ation: N/A				
Are climatic / hydrologic conditions on the site typical	al for this time of year?	Yes X No	(if no, explain in Remarks.)				
Are Vegetation X, Soil , or Hydrology	/ significantly di	isturbed? Yes Are "Norm	nal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrology _	significantly p	roblematic? No (If needed	l, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site	map showing sam	pling point location	s, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes	NoX	Is the Sampled Area					
Hydric Soil Present? Yes	NoX	Within a Wetland?	Yes No <u>X</u>				
	NoX	If yes, optional Wetland S	Site ID:				
Remarks: (Explain alternative procedures here or in							
This data point was taken in the southwestern portion	on of the project site in an	upland area, near Wetlan	d I. Vegetation consists of maintained turf grass				
associated with the golf course.							
HYDROLOGY							
Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; che	ck all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves	(B9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	_	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	_	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor	r (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres	s on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced I	Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	_ Recent Iron Reduction	in Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7	⁻ /	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	_ Other (Explain in Rema	arks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		-	FAC-Neutral Test (D5)				
Field Observations:							
Surface Water Present? Yes NoX _ Dep	oth (inches): N/A						
Water Table Present? Yes NoX Dep	oth (inches): N/A						
Saturation Present? Yes No _X Dep	oth (inches): N/A	Wetland Hydrology Pre	sent? Yes No X				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previo	ous inspections) if availah	ole:				
Remarks:	, acriai priotoc, provi						
No indicators of wetland hydrology were observed d	luring the site inspection						
	and the mopeoners.						

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	
1. <u>N/A</u>				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				That Are OBL, FACW, or FAC.
3				Total Number of Dominant
4				Species Across All Strata: (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0 (A/B)
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
				FAC species x 3 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Trevalence index = B/A =
6				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size:5')				Morphological Adaptations ¹ (Provide supporting
1. Turf grass	100%	<u> </u>	UPL	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4.				be present, unless disturbed or problematic.
5				<u> </u>
6				Definitions of Vegetation Strata:
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and
				greater than 3.28 ft (1 m) tall.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12	4000/			
	100%	_ = Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')				
1. <u>N/A</u>				
2				
3				Hydrophytic
4				Vegetation Present? Yes No _X_
		= Total Co	ver	Tresent: Tes NO _X
Remarks: (Include photo numbers here or on a separate	sheet.)	_		
Vegetation consists of maintained turf grass associated	,	course.		

Sampling Point: **DP-I UP**

SOIL Sampling Point: <u>DP-I UP</u>

Profile Desc	ription: (Describe to	the depth r	eeded to document t	the indicate	or or confi	rm the a	bsence of indica	ators.)		
Depth	Matrix		Redox	Features						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0 – 12+	7.5YR 4/3	40%	7.5YR 4/4	15%			Clay Loam	Gravel present		
	_									
							-			
¹Type: C=Co	oncentration, D=Deple	tion, RM=Re	educed Matrix, CS=Co	vered or Co	ated Sand	Grains.	² Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators:						Indicators for P	roblematic Hydric Soils³:		
Histosol	(A1)		Polyvalue Below	Surface (S	8) (LRR R		2 cm Muck	(A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B)		-, (=:::::	,	Coast Prairie Redox (A16) (LRR K, L, R)			
	istic (A3)		Thin Dark Surface	ce (S9) (I RI	R R. MI RA	149B)				
	en Sulfide (A4)		Loamy Mucky M				Dark Surface (S7) (LRR K, L)			
	d Layers (A5)		Loamy Gleyed N		(=::::: ::: =	,	Polyvalue Below Surface (S8) (LRR K, L)			
	d Below Dark Surface	(Δ11)	Depleted Matrix	, ,			-			
	ark Surface (A12)	(Δ11)	Redox Dark Surf				Thin Dark Surface (S9) (LRR K, L)			
	Mucky Mineral (S1)		Depleted Dark S				Iron-Manganese Masses (F12) (LRR K, L, R)			
	Gleyed Matrix (S4)		Redox Depression				Piedmont Floodplain Soils (F19) (MLRA 149B)			
			Redux Depressi	0115 (1-0)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (TF2)			
	Redox (S5)						Very Shallow Dark Surface (TF12)			
	Matrix (S6)	DA 440D)					Very Snallow Dark Surface (1F12) Other (Explain in Remarks)			
	rface (S7) (LRR R, MI		and be referred as a second by a		and all a found			ain in Remarks)		
Restrictive L	nyaropnytic vegetatio	n and wetia	nd hydrology must be	present, uni	ess disturt	ea or pro	obiematic.			
	. ,									
Type:_										
Depth	(inches):		<u></u>			Hy	dric Soil Presen	t? Yes No_X_		
Remarks:										
	a Charalte a a Santana a a		tan dan aka tanan dan							
No indicators	of nyanc soils were o	oservea aur	ing the site inspection.							

\\langan.com\data\PAR\data1\100796101\Project Data_Discipline\Natural Resources\Reports\Attachment A - Field Data Sheets\DP-I (UP).docx

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1,	Lot Nos. 3.2, 4.2, 37.1 and 37.2						
City/County: Town of Clay and Town of Salina / Onondaga County Sar	mpling Date: 07/12/2019						
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: DP-I (WET)						
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area Local relief (cond	cave, convex, none): Concave Slope (%): 1%						
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N	Long: -76.2095833° W Datum: NYSPCS Central NAD 83						
Soil Map Unit Name: Rh – Rhineback silt loam	NWI classification: PEM1E						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (if no, explain in Remarks.)						
Are Vegetation X, Soil , or Hydrology significantly d	isturbed? Yes Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrology significantly p							
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland I						
Remarks: (Explain alternative procedures here or in a separate report.)							
This data point was taken in a wetland area near flag I7. This area is a mainti-	ained (mowed) herbaceous wetland.						
·	,						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves	· · · · · · · · · · · · · · · · · · ·						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
X Water Marks (B1) Hydrogen Sulfide Odor							
X Sediment Deposits (B2)Oxidized Rhizospheres							
Drift Deposits (B3) Presence of Reduced							
Iron Deposits (B5) Thin Muck Surface (C7	· · · · · · · · · · · · · · · · · · ·						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No X Depth (inches): N/A							
Water Table Present? Yes No _ X _ Depth (inches): N/A							
Saturation Present? Yes X No Depth (inches): At Surface (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ	Wetland Hydrology Present? Yes X No ious inspections), if available:						
Remarks:							
Indicators of wetland hydrology observed during the site inspection include: s	soil saturation at the surface, water marks, sediment deposits, drainage						
patterns and microtopographic relief. Wetland I either drains directly into a sto	•						
into Wetland H.	,						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance rest worksneet.
1. <u>N/A</u>				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Conline/Chrush Ctrotum (Diot circu 15)				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')				FAC species x3 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	Napid Test to Trydrophytic Vegetation Dominance Test is >50%
				Prevalence Index is <3.01
11 1 2: (5)				
Herb Stratum (Plot size: 5' 1. Maintained Grasses (mowed) (Fescue spp.)	100%	Y	FΔC	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2				X Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Manufacture Office
6				Definitions of Vegetation Strata:
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8.				at breast height (DBH), regardless of height.
9.				Sapling/shrub - Woody plants less than 3 in. DBH and
10				greater than 3.28 ft (1 m) tall.
11.				Herb - All herbaceous (non-woody) plants, regardless
12				of size, and woody plants less than 3.28 ft tall.
	100%	= Total Co	over	Woody vines - All woody vines greater than 3.28 ft in
				height.
Woody Vine Stratum (Plot size: 30')				
1. N/A				
2				Hydrophytic
3				Vegetation
4				Present? Yes X No No
		_ = Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
This wetland area was comprised of maintained grasses	(mowed) Fe	escue spp. Ir	ndicators of hy	ydrology and hydric soils were met.
·	,		•	, ,

Sampling Point: **DP-I WET**

SOIL

SOIL								Sampling Point: DP-I WET		
Profile Desc	ription: (Describe to	the depth	needed to document th	ne indicato	or or confi	irm the a	absence of indica	tors.)		
Depth	Matrix			Features			_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0 – 12+	10YR 3/1	85%	7.5YR 5/6	15%	C	M	Clay	Saturated	_	
		-							•	
									-	
				· ——					_	
_	_	- <u></u>			_	_	- '			
									•	
				. —			<u>-</u>			
									-	
				· ——					_	
		_								
									•	
				. ——						
									-	
¹Type: C=Co	oncentration, D=Deple	etion, RM=R	Reduced Matrix, CS=Cove	ered or Co	ated Sand	l Grains.	² Location: Pl	L=Pore Lining, M=Matrix.		
		-							-	
Hydric Soil I	ndicators:						Indicators for Fr	roblematic Hydric Soils ³ :		
Histosol	I (A1)		Polyvalue Below \$	Surface (S	8) (LRR R	,	2 cm Muck ((A10) (LRR K, L, MLRA 149B)		
Histic E	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)			
Black H	listic (A3)		Thin Dark Surface	e (S9) (LRF	R R, MLR	A 149B)	OB) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	en Sulfide (A4)		Loamy Mucky Mir				Dark Surface (S7) (LRR K, L)			
	d Layers (A5)		Loamy Gleyed Ma		(=,	'/	Polyvalue Below Surface (S8) (LRR K, L)			
		· (A44)								
	ed Below Dark Surface) (A11)	X Depleted Matrix (F				Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)		X Redox Dark Surfa	, ,			Iron-Manganese Masses (F12) (LRR K, L, R)			
	Mucky Mineral (S1)		Depleted Dark Su				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy C	Gleyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy F	Redox (S5)						Red Parent Material (TF2)			
Stripped	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	urface (S7) (LRR R, M	ILRA 149B)					Other (Expla	ain in Remarks)		
			and hydrology must be pi	resent, unle	ess disturl	bed or pr	roblematic.			
	Layer (if observed)	<u> </u>		<u> </u>						
Type:										
ı ype										
Depth	(inches):					Hy	ydric Soil Present	? Yes <u>X</u> No		
Remarks:										
Indicators of	hydric soils include a	Depleted M	atrix and Redox Dark Su	ırface.						

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2								
City/County: Town of Clay and Town of Salina / Onondaga C	ounty Sampli	ling Date: 07/12/2019						
Application/Owner: TC Syracuse Development Associates, LL	LC State: NY Sa	ampling Point: DP-J (U	P)					
Investigator(s): CA	Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area L								
Subregion (LRR or MLRA): LRR L Lat: 43								
Soil Map Unit Name: Wwb – Williamson silt loam, 2 to 6 pe		-						
Are climatic / hydrologic conditions on the site typical for this t								
Are Vegetation X , Soil, or Hydrology								
Are Vegetation, Soil, or Hydrology								
SUMMARY OF FINDINGS – Attach site map sh								
30 MINIAR 1 OF THADINGS - Attach site map si	Towning Sampin	- Ing point location	is, transects, important leatures, etc.					
Hydrophytic Vegetation Present? Yes No		the Sampled Area						
Hydric Soil Present? YesNo		Vithin a Wetland?	Yes No <u>X</u>					
Wetland Hydrology Present? Yes No		yes, optional Wetland	Site ID:					
Remarks: (Explain alternative procedures here or in a separat	te report.)							
This data point was taken in the southwestern portion of the p	project site in an up	oland area, near Wetlar	nd J. Vegetation consists of maintained turf grass					
associated with the golf course.								
HYDROLOGY								
Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that	apply)		Surface Soil Cracks (B6)					
Surface Water (A1) Water-5	Stained Leaves (B9	9)	Drainage Patterns (B10)					
· · · · · · · · · · · · · · · · · · ·	Fauna (B13)		Moss Trim Lines (B16)					
	eposits (B15)	- -	Dry-Season Water Table (C2)					
	gen Sulfide Odor (C	- C1)	Crayfish Burrows (C8)					
		n Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)					
	ce of Reduced Iron	-	Stunted or Stressed Plants (D1)					
	Iron Reduction in		Geomorphic Position (D2)					
	uck Surface (C7)	` ′	Shallow Aquitard (D3)					
Indit Deposits (B5) Other (I			Shallow Aquitard (D3) Microtopographic Relief (D4)					
	Explain in Nemarks	<u>.</u>	FAC-Neutral Test (D5)					
Sparsely Vegetated Concave Surface (B8)		<u>-</u>	FAC-Neutral Test (D5)					
Field Observations:	.							
Surface Water Present? Yes No X Depth (inches	•							
Water Table Present? Yes No X Depth (inches								
Saturation Present? Yes No _X Depth (inchest (includes capillary fringe)	s): <u>N/A</u> W	Vetland Hydrology Pre	esent? Yes No X					
Describe Recorded Data (stream gauge, monitoring well, aeri	al photos, previous	s inspections), if availal	ble:					
Remarks:								
No indicators of wetland hydrology were observed during the	site inspection.							
, 3,	·							

	Absolute	Dominant	Indicator	Daminana Tast wartahast
Tree Stratum (Plot size: 30'	% Cover	Species?	Status	Dominance Test worksheet:
1. <u>N/A</u>				_ Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0% (A/B)
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. <u>N/A</u>				FAC species x 3 = FACU species x 4 =
2				UPL species x 4 =
3				Column Totals: (A) (B)
4				
5.				Prevalence Index = B/A =
6.				Hydrophytic Vogetation Indicators
7				Hydrophytic Vegetation Indicators:
r		= Total Cov	·or	Rapid Test for Hydrophytic Vegetation
	-	= Total Cov	CI CI	Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5')		.,		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Turf grass		<u> </u>		Problematic Hydrophytic Vegetation ¹ (Explain)
2. White clover (<i>Trifoilum repens</i>)	12%		<u>FACU</u>	<u> </u>
3. <u>Dandelion (<i>Taraxacum officinale</i>)</u>	3%	N	<u>FACU</u>	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and
10				greater than 3.28 ft (1 m) tall.
11.				Herb - All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
		= Total Co	· ·	Woody vines All woody vines greater than 2.39 ft in
				Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')				
1. <u>N/A</u>				
2				
3				Hydrophytic
4				Vegetation Present? Yes No X
		= Total Co	over	Present? Yes NoX
Remarks: (Include photo numbers here or on a separate	sheet)			
Tremarks. (moldae priote numbers here of on a separate	oncot.)			
Vegetation consists of maintained turf grass associated	with the golf	course.		

Sampling Point: **DP-J UP**

SOIL Sampling Point: DP-J UP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redox	Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0 – 4	7.5YR 4/3	100%					ScL				
<u>4 - 15+</u>	10YR 5/4	90%	10YR 6/6	10%	C	М	Sandy Loam				
				·							
				·							
				. <u> </u>							
				·							
-				·							
				·							
		_									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.											
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :											
Histoso	ol (A1)		Polyvalue Below	Surface (S	8) (LRR R	_	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
	Epipedon (A2)		MLRA 149B)		-, (,	Coast Prairie Redox (A16) (LRR K, L, R)				
	Histic (A3)		Thin Dark Surface	a (SQ) (I P I	DD MID	1/0R)					
	en Sulfide (A4)		Loamy Mucky Mir		(LKK K, L	.)	Dark Surface (S7) (LRR K, L)				
	ed Layers (A5)		Loamy Gleyed Ma				Polyvalue Below Surface (S8) (LRR K, L)				
	ed Below Dark Surface	e (A11)	Depleted Matrix (•			Thin Dark Surface (S9) (LRR K, L)				
Thick D	Dark Surface (A12)		Redox Dark Surfa	ace (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)				
Sandy	Mucky Mineral (S1)		Depleted Dark Su	ırface (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy	Gleyed Matrix (S4)		Redox Depressio	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy	Redox (S5)						Red Parent Material (TF2)				
Strippe	d Matrix (S6)						Very Shallow Dark Surface (TF12)				
Dark S	urface (S7) (LRR R, N	ILRA 149B)					Other (Explain	n in Remarks)			
³ Indicators of	of hydrophytic vegetation	on and wetla	and hydrology must be p	resent, unl	less disturb	ed or pr	roblematic.				
Restrictive	Layer (if observed)										
Type:											
Depth	ı (inches):					Ну	dric Soil Present?	Yes No _X_			
Remarks:											
Na indiantau											
ino indicator	s of nyaric soils were o	observed au	ring the site inspection.								

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1,	Lot Nos. 3.2, 4.2, 37.1 and 37.2						
City/County: Town of Clay and Town of Salina / Onondaga County Sar	mpling Date: 07/12/2019						
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: DP-J (WET)						
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area Local relief (con-	cave, convex, none): Concave Slope (%): 1%						
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N	Long: -76.2095833° W Datum: NYSPCS Central NAD 83						
Soil Map Unit Name: WwB – Williamson silt loam, 2 to 6 percent slopes	NWI classification: PEM1E						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (if no, explain in Remarks.)						
Are Vegetation X, Soil , or Hydrology significantly d	isturbed? Yes Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrology significantly p							
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland J						
Remarks: (Explain alternative procedures here or in a separate report.)							
This data point was taken in a wetland area near flag J7. This area is a main	tained (mowed) herbaceous wetland.						
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves	(B9) X Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
X Water Marks (B1) Hydrogen Sulfide Odol							
X Sediment Deposits (B2) Oxidized Rhizospheres							
Drift Deposits (B3) Presence of Reduced							
Algal Mat or Crust (B4) Recent Iron Reduction	· · ·						
Iron Deposits (B5) Thin Muck Surface (C7)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No _ X Depth (inches): N/A							
Water Table Present? Yes No X Depth (inches): N/A							
Saturation Present? Yes X No Depth (inches): At Surface	Wetland Hydrology Present? Yes X No						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ	ous inspections), if available:						
Remarks:							
Indicators of wetland hydrology observed during the site inspection include: s	•						
patterns and microtopographic relief. Wetland J drains via overland flow into	Stream A.						

	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>	% Cover	Species?	Status	
1. <u>N/A</u>				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		· 		,
3				Total Number of Dominant Species Across All Strata: 1 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6				That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
				FAC species x 3 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A)(B)
4				Prevalence Index = B/A =
5				-
6				<u>Hydrophytic</u> Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cov	er	Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Maintained Grasses (mowed) (Fescue spp.) 2		Y		X Problematic Hydrophytic Vegetation¹ (Explain)
3				1
4.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				-
6				Definitions of Vegetation Strata:
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and
9				greater than 3.28 ft (1 m) tall.
10				Hark All bark account (account to allow to account to
11				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12	4000/			
	100%	_ = Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')				
· · · · · · · · · · · · · · · · · · ·				
1. <u>N/A</u>				
2				Hydrophytic
3				Vegetation
4				Present? Yes X No No
		_ = Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
This wetland area was comprised of maintained grasses	(mowed) Fe	escue spp. Ir	ndicators of h	ydrology and hydric soils were met.
,	, -			

Sampling Point: **DP-J WET**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox I	Features						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0 – 4	7.5YR 4/2	92%	7.5YR 4/6	8%	C	M	Silty Clay	Saturated		
4 – 15+	Gley 1 3/1	92%	7.5YR 4/6	_8%_	C	M	Clay	Saturated		
	-			· <u></u>			· · · · · · · · · · · · · · · · · · ·			
				·						
				·						
	_									
				. <u></u>			-			
							-			
							-			
				. <u></u>						
1T C. C.			durand Matrice CC Care		-4		21 anations DI	Dave Lining M. Metric		
Type: C=C	oncentration, D=Depi	etion, Rivi=Re	duced Matrix, CS=Cov	ered or Co	ated Sand			_=Pore Lining, M=Matrix.		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :										
Histoso	I (A1)		Polyvalue Below	Surface (St	B) (LRR F	₹,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)	•	MLRA 149B)	`	, (•		e Redox (A16) (LRR K, L, R)		
	listic (A3)		Thin Dark Surface	e (S9) (I RF	RMIR	A 149B)				
	en Sulfide (A4)	-	Loamy Mucky Mir				9B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)			
	d Layers (A5)	-	X Loamy Gleyed Ma		(LIXIX IX, I	-)	Polyvalue Below Surface (S8) (LRR K, L)			
_	d Below Dark Surface	e (A11)	X Depleted Matrix (•			Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)	-	Redox Dark Surfa				Iron-Manganese Masses (F12) (LRR K, L, R)			
-	Mucky Mineral (S1)	-	Depleted Dark Su				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy (Gleyed Matrix (S4)	-	Redox Depressio	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy F	Redox (S5)						Red Parent Material (TF2)			
Stripped	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	urface (S7) (LRR R, N	ILRA 149B)					Other (Explain in Remarks)			
		on and wetlar	nd hydrology must be p	resent, unle	ess distur	bed or pro	oblematic.			
Restrictive I	Layer (if observed)									
Type:										
Depth	(inches):					Hy	dric Soil Present	? Yes <u>X</u> No		
Remarks:						ı				
Indicators of	bydria agila ingluda a	Loomy Clove	ed Matrix and a Deplete	d Motrix						
iliulcators of	Tryunc sons modue a	Loanly Gleye	d Matrix and a Deplete	u iviatrix.						

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2								
City/County: Town of Clay and Town of Salina	a / Onondaga County Sa	mpling Date: <u>07/12/2019</u>						
Application/Owner: TC Syracuse Developmen	t Associates, LLC State: NY	Sampling Point: DP-K (L	JP)					
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina								
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): Knoll Slope (%): 0 - 1%								
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N Long: -76.2095833° W Datum: NYSPCS Central NAD 83								
Soil Map Unit Name: <u>LaB- Lairdsville Silt Loam, 2 to 6 percent slopes</u> NWI classification: <u>N/A</u>								
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (if no, explain in Remarks.)								
Are Vegetation X, Soil , or Hydrology significantly disturbed? Yes Are "Normal Circumstances" present? Yes X No								
Are Vegetation, Soil, or Hydrology significantly problematic? No (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes	NoX	Is the Sampled Area						
Hydric Soil Present? Yes	NoX	Within a Wetland?	Yes NoX					
Wetland Hydrology Present? Yes	NoX	If yes, optional Wetland	Site ID:					
Remarks: (Explain alternative procedures here	e or in a separate report.)							
This data point was taken in the middle portion	n of the project site in an uplan	d area, near Wetland K. V	egetation consists of maintained turf grass					
associated with the golf course.								
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required	d: check all that apply)		Surface Soil Cracks (B6)					
Surface Water (A1)	* * * * * * * * * * * * * * * * * * * *		Ourlace Soil Gracks (B0) Drainage Patterns (B10)					
High Water Table (A2)	Water-Stained Leaves Aquatic Fauna (B13)	(09)	Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)		Noss Till Lines (B10) Dry-Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odo	r (C1)	Crayfish Burrows (C8)					
Sediment Deposits (B2)		s on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced	-	Saturation visible on Aerian imagery (69) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction		Geomorphic Position (D2)					
Algal Mat of Crust (B4)	Thin Muck Surface (C		Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	· ·		Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (Bi		aiks)	FAC-Neutral Test (D5)					
Field Observations:			PAC-Neutral Test (D3)					
	Depth (inches): N/A							
	Depth (inches): N/A							
	Depth (inches): N/A	Wetland Hydrology Pro	esent? Yes No X_					
(includes capillary fringe) Describe Recorded Data (stream gauge, moni								
, , ,	ltoring well, aerial priotos, prev	ious inspections), ii avalia	Die.					
Remarks:	and declare the effection of the	Landadan albadi						
No indicators of wetland hydrology were observed	rved during the site inspection.	Located on a knoll.						

VEGETATION – Use scientific names of plan	its.	Sampling Point: DP-K UP
Tree Stratum (Plot size: 30')	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
Green Ash (<i>Fraxinus pennsylvanica</i>) 2.	30% Y FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.		Total Number of Dominant Species Across All Strata: 2 (B)
5 6		Percent of Dominant Species That Are OBL, FACW, or FAC:
7	= Total Cover	Prevalence Index worksheet:
		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15')		FACW species30 x 2 =60
1. <u>N/A</u>		FAC species0 x 3 =0
2		FACU species <u>12</u> x 4 = <u>48</u>
3.		UPL species <u>88</u> x 5 = <u>440</u>
4		Column Totals:130 (A)548 (B)
5		Prevalence Index = B/A = 4.2
6.		
		Hydrophytic Vegetation Indicators:
7	= Total Cover	Rapid Test for Hydrophytic Vegetation
	= Total Cover	Dominance Test is >50% Prevalence Index is <3.0 ¹
Herb Stratum (Plot size: 5'		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Turf grass	88% Y UPL	•
2. White Clover (Trifolium repens)	10% N FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Dandelion (<i>Taraxacum officinale</i>) 4.	2% N FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6		Definitions of Vegetation Strata.
7 8		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
9		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12		
	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')		
1. N/A		
2		
3.		Hydrophytic
		Vegetation
4	= Total Cover	Present? Yes No X
Demarke: (Include photo numbers here or on a concrete	<u> </u>	
Remarks: (Include photo numbers here or on a separate Vegetation consists of maintained turf grass associated	,	> 3.

SOIL Sampling Point: <u>DP-K UP</u>

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks				
(inches) Color (moint) 0/ Color (moint) 0/ Type1 Lee2 Toyture Demortes				
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks				
0 – 8 7.5YR 4/3 85% Loam				
8 - 15+ 7.5YR 4/4 60% Loam Mixed Matrix				
7.5YR 5/4 40% Loam Mixed Matrix				
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.				
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :				
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 14	9B)			
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L,	Coast Prairie Redox (A16) (LRR K, L, R)			
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K,	49B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L)	Dark Surface (S7) (LRR K, L)			
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K,	Polyvalue Below Surface (S8) (LRR K, L)			
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)	Thin Dark Surface (S9) (LRR K, L)			
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K	Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA	Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Redox (S5) Red Parent Material (TF2)				
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)	Very Shallow Dark Surface (TF12)			
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)				
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed)				
Restrictive Layer (ii observed)				
Type:				
Depth (inches):				
Remarks:				
No indicators of hydric soils were observed during the site inspection.				

\\langan.com\\data\\PAR\\data1\100796101\\Project Data_Discipline\\\Natural Resources\\Reports\\Attachment A - Field Data Sheets\\DP-K (UP).docx

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2							
City/County: Town of Clay and Town of Salina / Onondaga County Sar	mpling Date: <u>07/12/2019</u>						
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: DP-K (WET)						
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area Local relief (con-	cave, convex, none): Concave Slope (%): 1%						
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N	Long: -76.2095833° W Datum: NYSPCS Central NAD 83						
Soil Map Unit Name: LaB – Lairdsville silt loam, 2 to 6 percent slopes	NWI classification: PEM1E						
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (if no, explain in Remarks.)						
Are Vegetation X, Soil , or Hydrology significantly d							
Are Vegetation, Soil, or Hydrology significantly p							
SUMMARY OF FINDINGS – Attach site map showing sam							
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland K						
Remarks: (Explain alternative procedures here or in a separate report.)							
This data point was taken in a wetland area near flag K15. This area is a mai	intained (mowed) herbaceous wetland.						
·							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves	(B9) X Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
X Water Marks (B1) Hydrogen Sulfide Odol							
X Sediment Deposits (B2) Oxidized Rhizospheres							
Drift Deposits (B3) Presence of Reduced							
Algal Mat or Crust (B4) Recent Iron Reduction	· · ·						
Iron Deposits (B5) Thin Muck Surface (C7							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema							
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No _ X Depth (inches): N/A							
Water Table Present? Yes No X Depth (inches): N/A							
Saturation Present? Yes X No Depth (inches): At Surface	Wetland Hydrology Present? Yes X No						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ							
Remarks:							
Indicators of wetland hydrology observed during the site inspection include: s	soil saturation at the surface, water marks, sediment denosits, sparsely						
vegetated concave surface, drainage patterns and microtopographic relief. W							
vogetated concave surfaces, drainage patterns and microtopographic relief. Vi	retiand it drains into effecting two o mon own intotalanage pipe.						

VEGETATION – Use scientific names of plan	nts.	Sampling Point: DP-K WET
Tree Stratum (Plot size: 30') 1. Green ash (Fraxinus pennsylvanica)	Absolute Dominant Indicator <u>% Cover Species? Status</u> 40% Y FAC	Dominance Test worksheet: Number of Dominant Species
2		That Are OBL, FACW, or FAC: 2 (A)
3 4		Total Number of Dominant Species Across All Strata: (B)
5 6		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
7	= Total Cover	Prevalence Index worksheet:
		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 = FAC species x 3 =
1. <u>N/A</u>		FACU species x 4 =
2		UPL species x 5 =
3		Column Totals: (A)(B)
4 5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		Rapid Test for Hydrophytic Vegetation
	= Total Cover	Dominance Test is >50%
		Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5'		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Maintained Grasses (mowed) (Fescue spp.) 2		X Problematic Hydrophytic Vegetation ¹ (Explain)
3		¹ Indicators of hydric soil and wetland hydrology must
4		be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6 7		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9		Sapling/shrub - Woody plants less than 3 in. DBH and
10		greater than 3.28 ft (1 m) tall.
11 12.		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:30')		
1. <u>N/A</u>		
2		
3		Hydrophytic
4		Vegetation Present? Yes X No
	= Total Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)	
This wetland area was comprised of maintained grasses soils were met.	(mowed) Fescue spp. and includes	nearby green ash trees. Indicators of hydrology and hydric

Profile Desc	ription: (Describe t	o the depth n	needed to document t	he indicato	r or confi	rm the a	absence of indica	tors.)		
Depth Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks		
0 – 11	10YR 3/2	85%	10YR 3/4	15%	C	М	Silty Clay	Saturated		
11 – 16+	10YR 4/1	60%	10YR 3/4	15%	<u>C</u>	М	Silty Clay	Saturated		
	10YR 3/1	25%								
							<u> </u>			
								_		
							-			
							<u> </u>			
							<u> </u>			
								_		
							· ·			
							-			
							<u> </u>			
¹Type: C=Co	oncentration, D=Dep	letion, RM=Re	educed Matrix, CS=Cov	ered or Coa	ated Sand	Grains.	² Location: PL	=Pore Lining, M=Matrix.		
Hydric Soil I	Indicators:						Indicators for Pr	oblematic Hydric Soils³:		
Histosol	I (A1)		Polyvalue Below	Surface (S8	3) (LRR R ,		2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Histic E	pipedon (A2)		MLRA 149B)					e Redox (A16) (LRR K, L, R)		
	istic (A3)		Thin Dark Surfac	e (S9) (LRF	R R. MLRA	(149B)				
	en Sulfide (A4)		Loamy Mucky Mi				Dark Surface (S7) (LRR K, L)			
	d Layers (A5)		Loamy Gleyed M		(,		Polyvalue Below Surface (S8) (LRR K, L)			
	Stratified Layers (A3) Edainy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) X Depleted Matrix (F3)					Thin Dark Surface (S9) (LRR K, L)				
-	ark Surface (A12)	(,,,,	X Redox Dark Surf				Iron-Manganese Masses (F12) (LRR K, L, R)			
	Mucky Mineral (S1)		Depleted Dark S				Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Gleyed Matrix (S4)		Redox Depression				Nesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Redox (S5)		Rodox Boprosoic	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Red Parent Material (TF2)			
-	d Matrix (S6)							allow Dark Surface (TF12)		
	urface (S7) (LRR R, I	MI DA 1/0R)					Other (Explain in Remarks)			
			nd hydrology must be p	recent unla	ace dieturh	ed or pr		iii iii Kemarks)		
Restrictive L	Layer (if observed)	ion and wella	na nyarology mast be p	nesent, unit	ess distuit	eu or pr	obiematic.			
Type										
турс										
Depth	(inches):					Ну	dric Soil Present	? Yes <u>X</u> No		
Remarks:										
Indicators of	hydric soils include a	a Depleted Ma	atrix and a Redox Dark	Surface.						
	•	·								

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2								
City/County: Town of Clay and Town of Salina / Onondaga County Salina	mpling Date: <u>07/12/2019</u>							
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: DP-L (UP)							
Investigator(s): CA Section, Town	nship, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area Local relief (con	cave, convex, none): None Slope (%): 0 - 1%							
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N	Long: -76.2095833° W Datum: NYSPCS Central NAD 83							
Soil Map Unit Name: <u>LaB- Lairdsville Silt Loam, 2 to 6 percent slopes</u>	NWI classification: N/A							
	Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.)							
Are Vegetation X , Soil , or Hydrology significantly disturbed? Yes Are "Normal Circumstances" present? Yes X No								
Are Vegetation, Soil, or Hydrology significantly problematic? No (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? YesNoX	Is the Sampled Area							
Hydric Soil Present? YesNoX	Within a Wetland? Yes No X							
Wetland Hydrology Present? Yes NoX	If yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a separate report.)								
This data point was taken in the middle portion of the project site in an uplan-	d area, near Wetland L. Vegetation consists of maintained turf grass							
associated with the golf course.								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)							
Water Marks (B1) Hydrogen Sulfide Odo	r (C1) Crayfish Burrows (C8)							
Sediment Deposits (B2) Oxidized Rhizosphere	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3) Presence of Reduced	Iron (C4) Stunted or Stressed Plants (D1)							
Algal Mat or Crust (B4) Recent Iron Reduction	in Tilled Soils (C6) Geomorphic Position (D2)							
Iron Deposits (B5) Thin Muck Surface (C	7) Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	arks) Microtopographic Relief (D4)							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes No _ X _ Depth (inches): N/A								
Water Table Present? Yes No _ X _ Depth (inches): N/A								
Saturation Present? Yes No _X Depth (inches):N/A	Wetland Hydrology Present? Yes No _X_							
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	ous inspections), if available:							
Remarks:								
No indicators of wetland hydrology were observed during the site inspection.								

VEGETATION – Use scientific names of plan	ıts.		Sampling Point:DP-L UP
<u>Tree Stratum</u> (Plot size:30') 1N/A		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species
2			That Are OBL, FACW, or FAC: 0 (A)
3			Total Number of Dominant
4			Species Across All Strata: 1 (B)
5			Percent of Dominant Species
6.			That Are OBL, FACW, or FAC: 0 (A/B)
7			Prevalence Index worksheet:
		= Total Cover	Total % Cover of: Multiply by:
			OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')			FACW species x 2 =
1. <u>N/A</u>			FAC species x 3 =
2			FACU species x 4 =
3.			UPL species x 5 = Column Totals: (A) (B)
4			
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			Rapid Test for Hydrophytic Vegetation
		= Total Cover	Dominance Test is >50%
			Prevalence Index is <3.01
Herb Stratum (Plot size: 5'			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Turf grass	100%	Y UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2			robbinatio riyarophytio vegetation (Explain)
3			¹ Indicators of hydric soil and wetland hydrology must
4			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
6			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7			at breast height (DBH), regardless of height.
8			Sapling/shrub - Woody plants less than 3 in. DBH and
9			greater than 3.28 ft (1 m) tall.
10			Herb - All herbaceous (non-woody) plants, regardless
11 12.			of size, and woody plants less than 3.28 ft tall.
<u> </u>	100%	_ = Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')			
1. N/A			
•			
2 3			Hydrophytic
4			Vegetation
T		= Total Cover	Present? Yes NoX
Remarks: (Include photo numbers here or on a separate	sheet.)		
	,		
Vegetation consists of maintained turf grass associated v	with the golf	course.	

SOIL Sampling Point: <u>DP-L UP</u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			Features						
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks		
0 – 7	10YR 5/3	100%					Silt Loam			
<u>7 - 15+</u>	10YR 4/4	60%					Silt Loam	Mixed Matrix (Very Dry)		
	7.5YR 5/6	40%					Silt Loam	Mixed Matrix (Very Dry)		
								<u> </u>		
¹Type: C=Co	oncentration, D=Deplet	tion, RM=Re	duced Matrix, CS=Cov	ered or Co	ated Sand	I Grains.	² Location: P	L=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for P	roblematic Hydric Soils ³ :		
Histoso	Ι (Δ1)		Polyvalue Below	Surface (S.	8) (I RR R		2 cm Muck	(A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)	=	MLRA 149B)	Curiace (C	o) (Litti it	,		e Redox (A16) (LRR K, L, R)		
· · · · · · · · · · · · · · · · · · ·	listic (A3)		Thin Dark Surfac	۵ (S9) (I RI	R MIR	Δ 149R)				
	en Sulfide (A4)	=	Loamy Mucky Mi				Dark Surface (S7) (LRR K, L)			
	d Layers (A5)	=	Loamy Gleyed M		(LIXIX IX, L	-)	Polyvalue Below Surface (S8) (LRR K, L)			
· · · · · · · · · · · · · · · · · · ·	ed Below Dark Surface	- (Δ11)	Depleted Matrix (, ,			Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)	(////) _	Redox Dark Surfa				Iron-Manganese Masses (F12) (LRR K, L, R)			
	Mucky Mineral (S1)	=	Nedex Bark Cark Depleted Dark St				Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Gleyed Matrix (S4)	=	Redox Depression				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Redox (S5)	=	Rodox Boprocolo	o (i o)				Red Parent Material (TF2)		
-	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
	urface (S7) (LRR R, MI	RA 149B)					Other (Explain in Remarks)			
	f hydrophytic vegetatio		d hydrology must be p	resent, unl	ess disturl	oed or pro		,		
Restrictive I	Layer (if observed)		a, a. o.ogyaot 20 p		<u> </u>					
Type:_										
Depth	(inches):					Hyd	dric Soil Present	t? Yes No_X_		
Remarks:	,									
No indicators	s of hydric soils were of	bserved durii	ng the site inspection.							

\\langan.com\data\PAR\data1\100796101\Project Data_Discipline\\Natural Resources\Reports\Attachment A - Field Data Sheets\DP-L (UP).docx

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2								
City/County: Town of Clay and Town of Salina / Onondaga County Salina	mpling Date: <u>07/12/2019</u>							
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: DP-L (WET)							
Investigator(s): CA Section, Town	nship, Range: Town Of Clay and Town of Salina							
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): Concave Slope (%): 1%								
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N								
Soil Map Unit Name: LaB – Lairdsville silt loam, 2 to 6 percent slopes								
Are climatic / hydrologic conditions on the site typical for this time of year?								
Are Vegetation X , Soil, or Hydrology significantly disturbed? Yes Are "Normal Circumstances" present? Yes X No								
Are Vegetation, Soil, or Hydrology significantly problematic? No (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
	F 3 F							
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area							
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No							
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland L							
Remarks: (Explain alternative procedures here or in a separate report.)	in you, optional violatia one ib.							
This data point was taken in a wetland area near flag L6. This area is a main	stained (mawad) harbaccous wotland							
This data point was taken in a wettand area hear hay Lo. This area is a main	tained (mowed) herbaceous wettand.							
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	X Surface Soil Cracks (B6)							
Surface Water (A1) Water-Stained Leaves	(B9) <u>X</u> Drainage Patterns (B10)							
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)							
X Water Marks (B1) Hydrogen Sulfide Odo								
X Sediment Deposits (B2) Oxidized Rhizosphere								
Drift Deposits (B3) Presence of Reduced								
Algal Mat or Crust (B4) Recent Iron Reduction	· ·							
Iron Deposits (B5)Thin Muck Surface (C								
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem								
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)							
Field Observations:	TAO Noulai Test (55)							
Surface Water Present? Yes No _ X _ Depth (inches): N/A								
Water Table Present? Yes No _X _ Depth (inches): N/A								
Saturation Present? Yes NoX Depth (inches): N/A	Wetland Hydrology Present? Yes X No							
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections), if available:							
Remarks:								
Indicators of wetland hydrology observed during the site inspection include:	water marks, sediment deposits, sparsely vegetated concave surface,							
surface soil cracks, drainage patterns and microtopographic relief. Wetland L	drains into Stream A via an 8-inch CMP inlet/drainage pipe.							

	Absolute	Dominant	Indicator	Deminence Test werksheet.
Tree Stratum (Plot size: 30'	% Cover	Species?	Status	Dominance Test worksheet:
1. <u>N/A</u>				Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 = FAC species x 3 =
1. <u>N/A</u>				FACU species x 3 = FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				
5.				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
7				
		= Total Cov		Rapid Test for Hydrophytic Vegetation
		= 10tai 00v	OI .	Dominance Test is >50%
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5')	070/	.,	540	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Maintained Grasses (mowed) (Fescue spp.)		<u>Y</u>		X Problematic Hydrophytic Vegetation ¹ (Explain)
Narrowleaf cattail (<i>Typha angustifolia</i>)	3%	<u>N</u>	OBL	
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				at breast neight (DBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and
10				greater than 3.28 ft (1 m) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
		= Total Co		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30')				
· · · · · · · · · · · · · · · · · · ·				
1. <u>N/A</u>				
2				Hydrophytic
3				Vegetation
4				Present? Yes X No
		_ = Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
This wetland area was comprised of maintained grasses	(mowed) Fe	escue spp. Ir	ndicators of h	ydrology and hydric soils were met.

Sampling Point: **DP-L WET**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix Redox Features										
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-5	10YR 4/2	88%	7.5YR 4/6	12%	С	M	SCL	Silty Clay Loam		
<u>5 – 15+</u>	7.5YR 4/2	60%	7.5YR 5/6	15%	С	M	SCL	Silty Clay Loam		
	7.5YR 3/1	25%								
		<u> </u>					<u></u>			
		- <u> </u>								
										
	-		_							
							· ·			
										
 -							· ·			
			_				· -			
¹Type: C=C	oncentration, D=Deple	etion, RM=Red	uced Matrix, CS=Cove	red or Coa	ated Sand	d Grains.	² Location: Pl	L=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for Pi	roblematic Hydric Soils ³ :		
Histoso	l (A1)	_	Polyvalue Below S	urface (S8	B) (LRR R	١,	2 cm Muck ((A10) (LRR K, L, MLRA 149B)		
Histic E	pipedon (A2)		MLRA 149B)				Coast Prairi	e Redox (A16) (LRR K, L, R)		
Black H	listic (A3)	_	Thin Dark Surface	(S9) (LRR	R, MLR	A 149B)	9B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydrog	en Sulfide (A4)	_	Loamy Mucky Mine	eral (F1) (LRR K, L	_)	Dark Surface (S7) (LRR K, L)			
Stratifie	d Layers (A5)	_	Loamy Gleyed Mat	trix (F2)			Polyvalue Below Surface (S8) (LRR K, L)			
Deplete	ed Below Dark Surface	e (A11)	X Depleted Matrix (F	3)			Thin Dark Surface (S9) (LRR K, L)			
Thick D	ark Surface (A12)	_	Redox Dark Surfac	e (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy I	Mucky Mineral (S1)	-	Depleted Dark Sur	face (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Gleyed Matrix (S4)	_	Redox Depression	s (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
-	Redox (S5)							Material (TF2)		
	d Matrix (S6)						-	w Dark Surface (TF12)		
	urface (S7) (LRR R, N	•						ain in Remarks)		
	f nydrophytic vegetati Layer (if observed)	on and wetland	hydrology must be pre	esent, unic	ess distur	bed or pro	oblematic.			
_										
,, -			<u> </u>							
Depth	(inches):		_			Ну	dric Soil Present	? Yes <u>X</u> No		
Remarks:						<u> </u>				
Indicators of	hydric soils include a	Depleted Matr	x.							

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2						
City/County: Town of Clay and Town of Salina / Onondaga County Sar	mpling Date: <u>07/12/2019</u>					
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: DP-M (UP)					
Investigator(s): CA Section, Town	nship, Range:					
Landform (hillslope, terrace, etc.): Flat area Local relief (cond	cave, convex, none): None Slope (%): 0 - 1%					
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N	Long: -76.2095833° W Datum: NYSPCS Central NAD 83					
Soil Map Unit Name: LvB – Lockport and Brockport Silty Clay Loams, 0 to	6 percent slopes NWI classification: N/A					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (if no, explain in Remarks.)					
Are Vegetation X, Soil , or Hydrology significantly d	isturbed? Yes Are "Normal Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydrology significantly p	roblematic? No (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? YesNoX	Is the Sampled Area					
Hydric Soil Present? YesNoX	Within a Wetland? Yes No X					
Wetland Hydrology Present? Yes NoX	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)						
This data point was taken in the northern portion of the project site in an upla	nd area, near Wetland M. Vegetation consists of maintained turf grass					
associated with the golf course.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor	r (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2) Oxidized Rhizospheres	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced	Iron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4) Recent Iron Reduction	in Tilled Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7	") Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	arks) Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No _X _ Depth (inches):N/A						
Water Table Present? Yes No _X _ Depth (inches):N/A						
Saturation Present? Yes No _X _ Depth (inches): N/A	Wetland Hydrology Present? Yes No _X_					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ	oue inercetions) if available:					
,	ous inspections), if available.					
Remarks:						
No indicators of wetland hydrology were observed during the site inspection.						

VEGETATION – Use scientific names of pla	nts.		Sampling Point: DP-M UP
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1 2			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3			Total Number of Dominant Species Across All Strata: (B)
4 5		· ————————————————————————————————————	Percent of Dominant Species That Are OBL, FACW, or FAC:0(A/B)
6 7			Prevalence Index worksheet:
		= Total Cover	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')			OBL species x 1 = FACW species x 2 =
, , , , , , , , , , , , , , , , , , , ,			FAC species x 3 =
1			FACU species x 4 =
2.		· 	UPL species x 5 =
3	-	· 	Column Totals: (A)(B)
4			Prevalence Index = B/A =
5 6		·	
			Hydrophytic Vegetation Indicators:
7		Total Cover	Rapid Test for Hydrophytic Vegetation
		= Total Cover	Dominance Test is >50%
			Prevalence Index is <3.01
Herb Stratum (Plot size: 5')	4000/	V LIDI	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Turf grass		Y UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2			
3			¹ Indicators of hydric soil and wetland hydrology must
4			be present, unless disturbed or problematic.
5		· 	Definitions of Vegetation Strata:
6	-	· 	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7		· <u> </u>	at breast height (DBH), regardless of height.
8			
9		· 	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10		· 	Herb - All herbaceous (non-woody) plants, regardless
11 12.			of size, and woody plants less than 3.28 ft tall.
	100%	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:30')			
4 N/A			
1. <u>N/A</u> 2		· ———	
3.			Hydrophytic
4.			Vegetation
		= Total Cover	Present? Yes No _X
Remarks: (Include photo numbers here or on a separate	e sheet.)		
` '	,		
Vegetation consists of maintained turf grass associated	with the golf	course.	

SOIL Sampling Point: <u>DP-M UP</u>

Profile Desc	ription: (Describe to	the depth	needed to document th	ne indicato	or or confi	irm the a	bsence of indicate	ors.)		
Depth	Matrix			Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0 – 4	7.5YR 3/2	100%					Silt Loam			
4 - 15+	7.5YR 3/3	95%	7.5YR 4/4	5%	C	M	Silt Loam			
				,						
			·							
								<u> </u>		
								·		
				<u> </u>						
¹Type: C=Co	oncentration, D=Deple	tion, RM=F	Reduced Matrix, CS=Cove	ered or Co	ated Sand	Grains.	² Location: PL=	=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for Pro	blematic Hydric Soils³:		
Histoso	I (A1)		Polyvalue Below \$	Surface (S	8) (LRR R	.,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B)	`	, ,		Coast Prairie Redox (A16) (LRR K, L, R)			
	istic (A3)		Thin Dark Surface	e (S9) (LR i	R R. MLR	A 149B)				
	en Sulfide (A4)		Loamy Mucky Mir				Dark Surface (S7) (LRR K, L)			
	d Layers (A5)		Loamy Gleyed Ma		(=::::, =	•,	Polyvalue Below Surface (S8) (LRR K, L)			
	d Below Dark Surface	(A11)	Depleted Matrix (F	, ,			Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)	(/////	Redox Dark Surfa							
	Mucky Mineral (S1)		Depleted Dark Su				Iron-Manganese Masses (F12) (LRR K, L, R)			
	Gleyed Matrix (S4)		Redox Depression				Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Redox (S5)		Redux Depression	115 (1-0)			Red Parent Material (TF2)			
-								` '		
	d Matrix (S6)	I D A 440B	`				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)			
	ırface (S7) (LRR R, M					!		n in Remarks)		
Restrictive I	r nydropnytic vegetatid ₋ayer (if observed)	n and weti	land hydrology must be pr	resent, uni	ess distur	bea or pro	obiematic.			
	,									
Type:_										
Depth	(inches):		<u></u>			Hy	dric Soil Present?	Yes NoX		
Remarks:										
No indicators	s of hydric soils were o	bserved du	uring the site inspection.							

Project /Site: Section 114, Block No. 1, Lot No.	2.3 / Section 24, Block No. 1,	Lot Nos. 3.2, 4.2, 37.1 a	and 37.2					
City/County: Town of Clay and Town of Salina / Onondaga County Sampling Date: 07/12/2019								
Application/Owner: TC Syracuse Development Associates, LLC State: NY Sampling Point: DP-M (WET)								
Investigator(s): CA Section, Township, Range: Town Of Clay and Town of Salina								
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): Concave Slope (%): 1%								
Subregion (LRR or MLRA): LRR L	Lat: <u>43.1220438° N</u>	Long:76.209583	3° W Datum: NYSPCS Central NAD 83					
Soil Map Unit Name: <u>LaB – Lairdsville silt loa</u>	am, 2 to 6 percent slopes	NWI classif	cation: PEM1E/PFO1E					
Are climatic / hydrologic conditions on the site t	ypical for this time of year?	Yes <u>X</u> 1	No (if no, explain in Remarks.)					
Are Vegetation, Soil, or Hydro	ology significantly d	isturbed? No Are "No	rmal Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydro	ology significantly p	roblematic? No (If need	ed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point locatio	ns, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes	X No	Is the Sampled Area						
Hydric Soil Present? Yes	XNo	Within a Wetland?	Yes <u>X</u> No					
Wetland Hydrology Present? Yes	X No	If yes, optional Wetland	d Site ID: Wetland M					
Remarks: (Explain alternative procedures here	or in a separate report.)							
This data point was taken in a wetland area nea	ar flag M2. This area is partial	ly maintained (mowed) h	nerbaceous wetland and also a forested wetland					
that extends offsite.								
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required	; check all that apply)		Surface Soil Cracks (B6)					
X Surface Water (A1)	X Water-Stained Leaves	(B9)	X Drainage Patterns (B10)					
X High Water Table (A2)	X Aquatic Fauna (B13)		Moss Trim Lines (B16)					
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)					
X Water Marks (B1)	Hydrogen Sulfide Odo		Crayfish Burrows (C8)					
X Sediment Deposits (B2)	Oxidized Rhizosphere	• , ,	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)	Presence of Reduced	• •	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction							
Iron Deposits (B5)	Thin Muck Surface (C	*	Shallow Aquitard (D3)					
X Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rem	arks)	X Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8))		FAC-Neutral Test (D5)					
Field Observations:								
Surface Water Present? Yes X No	Depth (inches): <u>4" - 6"</u>							
Water Table Present? Yes X No	Depth (inches): At Surface							
Saturation Present? Yes X No (includes capillary fringe)	Depth (inches): At Surface	Wetland Hydrology P	resent? Yes X No					
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previ	ious inspections), if avail	able:					
Remarks:								
Indicators of wetland hydrology observed during	g the site inspection include: 4	4 – 6 inches of standing	water, a high water table, soil saturation at the					
surface, water marks, sediment deposits, inund	lation visible on aerial imagery	y, water-stained leaves, a	aquatic fauna, drainage patterns and					
microtopographic relief. Wetland M drains easte	erly offsite into a wooded area	via overland flow.						

VEGETATION – Use scientific names of plan	Sampling Point: DP-M WET			
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Silver Maple (Acer saccharinum)	35%	Υ	FACW	Number of Dominant Species
2. Eastern Cottonwood (Populus deltoides)	30%	Υ	FAC	That Are OBL, FACW, or FAC: 4 (A)
3 4				Total Number of Dominant Species Across All Strata:
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
	65%	_ = Total C	over	Total % Cover of: Multiply by:
				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
				FAC species x 3 =
1. <u>N/A</u>			· ——	FACU species x 4 =
2.		-	· 	UPL species x 5 =
3				Column Totals: (A)(B)
4				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cov	/er	X Dominance Test is >50%
				Prevalence Index is <3.0 ¹
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
American mannagrass (Glyceria grandis)	60%	Y	OBL	Problematic Hydrophytic Vegetation¹ (Explain)
2. Common Spikerush (Eleocharis palustris)	35%	Y	OBL	Problematic Hydrophytic Vegetation (Explain)
3. Maintained Grasses (mowed) (Fescue spp.)	25%	N	FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Pickerelweed (Pontederia cordata)	20%	N	OBL	be present, unless disturbed or problematic.
5. Red Maple Herbs (Acer rubrum)	30%	·	FAC	Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH and
9			·	greater than 3.28 ft (1 m) tall.
10				Mark All back account (account A) also (account all account and a second account accou
11 12.			·	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	170%	= Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:30')				
1. <u>N/A</u>				
2				
3.			· 	Hydrophytic
4.				Vegetation
T		= Total Co	over	Present? Yes <u>X</u> No
Remarks: (Include photo numbers here or on a separate	shoot)			
Tremains. (include photo numbers here of on a separate	Silect.)			
This wetland area was comprised of a mix of herbaceous	s wetland sp	ecies and s	ilver maple ar	nd eastern cottonwood trees.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox F	eatures						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-5	10YR 4/2	88%	10YR 5/6	12%	C	M	Clay	Saturated		
5 – 15+	10YR 3/1	85%	10YR 5/6	15%	С	M	Clay	Saturated		
			_							
			_							
			_							
			_			-				
¹Type: C=Co	oncentration D=Denk	etion RM=Re	duced Matrix, CS=Cove	ered or Coa	ated Sand	d Grains	² I ocation: PI	_=Pore Lining, M=Matrix.		
					atou ouri					
Hydric Soil	Indicators:						Indicators for Pi	oblematic Hydric Soils ³ :		
Histoso	I (A1)	,	Polyvalue Below S	Surface (S8	3) (LRR F	₹,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Histic E	pipedon (A2)		MLRA 149B)				Coast Prairie	e Redox (A16) (LRR K, L, R)		
Black H	istic (A3)		Thin Dark Surface	(S9) (LRR	R, MLR	A 149B)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)		
Hydroge	en Sulfide (A4)		Loamy Mucky Min	eral (F1) (LRR K, I	_)	Dark Surface (S7) (LRR K, L)			
Stratifie	d Layers (A5)		Loamy Gleyed Ma	trix (F2)			Polyvalue Below Surface (S8) (LRR K, L)			
Deplete	d Below Dark Surface	e (A11)	X Depleted Matrix (F	- 3)			Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)		X Redox Dark Surfa	ce (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)			
	Mucky Mineral (S1)	·	Depleted Dark Su				Piedmont Floodplain Soils (F19) (MLRA 149B)			
_	Gleyed Matrix (S4)	•	Redox Depressior				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Redox (S5)	•		- (-/			Red Parent Material (TF2)			
-	d Matrix (S6)						Very Shallow Dark Surface (TF12)			
	urface (S7) (LRR R, N	MI RA 149R)					Other (Explain in Remarks)			
	, , ,	•	nd hydrology must be pr	asant unla	see dietur	hed or pro		an in Komano)		
	Layer (if observed)	on and wettar	ia nyarology mast be pr	Coort, ariic	233 GISTOI	bed of pre	obiematic.			
Tuno										
Type:_										
Depth	(inches):					Ну	dric Soil Present	? Yes <u>X</u> No		
Remarks:										
	harabeta a alta ta abada a	Davidson IM-	uda a da Bada a Bada O d							
indicators of	nyaric soils include a	Depleted Ma	trix and Redox Dark Su	пасе.						

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1, Lot Nos. 3.2, 4.2, 37.1 and 37.2							
City/County: Town of Clay and Town of Salina / Onondaga County Salina / Onondaga County	ampling Date: <u>07/12/2019</u>						
Application/Owner: TC Syracuse Development Associates, LLC State: NY	_ Sampling Point: DP-N (UP)						
Investigator(s): CA Section, Tow	vnship, Range: Town Of Clay and Town of Salina						
Landform (hillslope, terrace, etc.): Flat area Local relief (concave, convex, none): Concave Slope (%): 0 - 1%							
Subregion (LRR or MLRA): <u>LRR L</u> Lat: <u>43.1220438° N</u>							
Soil Map Unit Name: LvB – Lockport and Brockport Silty Clay Loams, 0 to 6 percent slopes NWI classification: N/A							
Are climatic / hydrologic conditions on the site typical for this time of year?							
	disturbed? Yes Are "Normal Circumstances" present? Yes X No						
Are Vegetation, Soil, or Hydrology significantly							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes NoX	Is the Sampled Area						
Hydric Soil Present? Yes NoX	Within a Wetland? Yes NoX						
Wetland Hydrology Present? YesNoX	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report.)							
This data point was taken in the northern portion of the site in an upland are	a, near Wetland N. Vegetation consists of maintained turf grass associated						
with the golf course.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)						
Surface Water (A1) Water-Stained Leaves	s (B9) Drainage Patterns (B10)						
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odd	or (C1) Crayfish Burrows (C8)						
	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3) Presence of Reduced							
Algal Mat or Crust (B4) Recent Iron Reduction							
Iron Deposits (B5) Thin Muck Surface (C							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	· · · · · · · · · · · · · · · · · · ·						
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)						
Field Observations:	17.0 Hould 1001 (D0)						
Surface Water Present? Yes No X Depth (inches): N/A							
	-						
	Wetland Hydrology Present? Yes No X						
Saturation Present? Yes No _X _ Depth (inches):N/A (includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							
No indicators of wetland hydrology were observed during the site inspection							

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance rest worksneet.
1. <u>N/A</u>				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant
4				Species Across All Strata: (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0 (A/B)
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
				OBL species x 1 =
Opelian/Obrah Otratura (Distraina 45)				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:15')				FAC species x 2 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
7				
		= Total Cov	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
		- 10tai 001	01	
				Prevalence Index is <3.01
Herb Stratum (Plot size: 5' 1. Turf grass	1000/	V	LIDI	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
_		<u>Y</u>		Problematic Hydrophytic Vegetation ¹ (Explain)
2				
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				
9				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10				greater than 3.20 ft (1 fil) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
12				of size, and woody plants less than 3.28 ft tall.
	100%	_ = Total Co	over	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:)				
1. <u>N/A</u>				
2				Hydrophytic
3				Vegetation
4				Present? Yes NoX_
		_ = Total Co	over	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Vegetation consists of maintained turf grass associated	with the golf	course.		

Sampling Point: **DP-N UP**

SOIL Sampling Point: <u>DP-N UP</u>

Profile Desc	ription: (Describe to	the depth n	eeded to document th	ne indicato	or or confi	irm the a	bsence of indicato	ors.)		
Depth	Matrix			Features 0/	T1	12	Tautuna	Demonto		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0 – 12+	7.5YR 5/4	100%					Silt Loam			
				<u></u> -						
_			_		_	_	_			
		·		<u> </u>						
¹Type: C=Co	oncentration, D=Deple	tion, RM=Re	duced Matrix, CS=Cov	ered or Co	ated Sand	l Grains.	² Location: PL=	Pore Lining, M=Matrix.		
Hydric Soil I	Indicators:						Indicators for Pro	blematic Hydric Soils³:		
Histosol	I (A1)		Polyvalue Below S	Surface (S	8) (LRR R	, .,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)		
· <u></u>	pipedon (A2)		MLRA 149B)	,	, .	,	Coast Prairie Redox (A16) (LRR K, L, R)			
	listic (A3)		Thin Dark Surface	e (S9) (LRI	R R, MLR	A 149B)				
	en Sulfide (A4)	-	 Loamy Mucky Mir				Dark Surface (S7) (LRR K, L)			
	d Layers (A5)	_	Loamy Gleyed Ma		•	,	Polyvalue Below Surface (S8) (LRR K, L)			
	ed Below Dark Surface	(A11)	Depleted Matrix (I				Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)		Redox Dark Surfa				Iron-Manganese Masses (F12) (LRR K, L, R)			
	Mucky Mineral (S1)	-	Depleted Dark Su				Piedmont Floodplain Soils (F19) (MLRA 149B)			
-	Gleyed Matrix (S4)		Redox Depression				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Redox (S5)			•			Red Parent Material (TF2)			
	d Matrix (S6)							Dark Surface (TF12)		
Dark Su	urface (S7) (LRR R, MI	LRA 149B)					Other (Explain in Remarks)			
³ Indicators of	f hydrophytic vegetatic	n and wetlar	nd hydrology must be p	resent, unl	ess disturl	oed or pro	oblematic.	· 		
Restrictive L	Layer (if observed)									
Type:_										
Depth	(inches):					Hyd	dric Soil Present?	Yes No _X_		
Remarks:										
No indicators	s of hydric soils were o	bserved duri	ng the site inspection.							
	, 6, 6 6 6 1.6.6 6	2001104 4411	ng me one mepeemem							

\\langan.com\\data\\PAR\\data1\100796101\\Project Data_Discipline\\\Natural Resources\\Reports\\Attachment A - Field Data Sheets\\DP-N (UP).docx

Project /Site: Section 114, Block No. 1, Lot No. 2.3 / Section 24, Block No. 1,	Lot Nos. 3.2, 4.2, 37.1 and 37.2
City/County: Town of Clay and Town of Salina / Onondaga County Sar	mpling Date: <u>07/12/2019</u>
Application/Owner: TC Syracuse Development Associates, LLC State: NY	Sampling Point: <u>DP-N (WET)</u>
Investigator(s): CA Section, Town	nship, Range:Town Of Clay and Town of Salina
Landform (hillslope, terrace, etc.): Flat area Local relief (con-	cave, convex, none): Concave Slope (%): 1%
Subregion (LRR or MLRA): LRR L Lat: 43.1220438° N	Long: -76.2095833° W Datum: NYSPCS Central NAD 83
Soil Map Unit Name: LaB – Lairdsville silt loam, 2 to 6 percent slopes	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation X, Soil , or Hydrology significantly d	
Are Vegetation, Soil, or Hydrology significantly p	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	Within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland N
Remarks: (Explain alternative procedures here or in a separate report.)	
This data point was taken in a wetland area near flag N1. This area is a main	ntained (mowed) herbaceous wetland.
, , , , , , , , , , , , , , , , , , ,	
HYDROLOGY	
	Connection (Indicators (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	X Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	 -
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
X Water Marks (B1) Hydrogen Sulfide Odol	
X Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C7	· · · · · · · · · · · · · · · · · · ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
X Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? YesNo _X Depth (inches): N/A	
Water Table Present? Yes No _X Depth (inches): N/A	
Saturation Present? Yes NoX Depth (inches): N/A (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ	ious inspections), if available:
Remarks:	
Indicators of wetland hydrology observed during the site inspection include: v	
stained leaves, surface soil cracks, drainage patterns and microtopographic	relief. Wetland N drains into Wetland M via overland flow.

VEGETATION – Use scientific names of plan	nts.			Sampling Point: <u>DP-N WET</u>
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant In Species?		Dominance Test worksheet:
Silver Maple (Acer saccharinum) 2.	25%	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.				Total Number of Dominant Species Across All Strata: (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
7		= Total Cove		Prevalence Index worksheet:
Cooling/Chruh Ctratum / Plot aiza: 45'				OBL species x 1 = FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15')				FAC species x 3 =
1. <u>N/A</u>				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4. 5.				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
		= Total Cover		Dominance Test is >50%
				Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5'				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Maintained Grasses (mowed) (Fescue spp.)	65%	Y	FAC	X Problematic Hydrophytic Vegetation¹ (Explain)
2				(2.4. man)
3. 4.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				— Present, unless distarbed of problematic.
6				Definitions of Vegetation Strata:
7				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height.
9				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10				
11 12.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	65%	= Total Cove	er	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:30')				
1. <u>N/A</u>				
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
		_ = Total Cove	er	
Remarks: (Include photo numbers here or on a separate	e sheet.)			
This wetland area was comprised of maintained grasses Indicators of hydrology and hydric soils were met.	s (mowed) Fe	es <i>cue</i> spp. and	areas of ba	are soil. Silver maple trees were nearby the wetland.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox F	eatures						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-7	7.5YR 4/2	85%	7.5YR 4/6	15%	С	M	Silty Clay			
<u>7 – 16+</u>	7.5YR 3/1	_80%	7.5YR 5/6	20%	C	M	Silty Clay			
			_					_		
				-				_		
				-			 	-		
							-			
							<u> </u>			
				-		-		_		
							·			
										
							<u> </u>			
1T C. C.	tration D Donl		durand Matrice CC Cour				21 anations DI	Dans Lining M. Matrix		
Type: C=C	oncentration, D=Depi	etion, Rivi=Re	duced Matrix, CS=Cove	erea or Coa	ated Sand	d Grains.	-Location: PL=	Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for Pro	blematic Hydric Soils³:		
Histoso	I (A1)		Polyvalue Below S	Surface (S8	3) (LRR F	₹.	2 cm Muck (A	10) (LRR K, L, MLRA 149B)		
	pipedon (A2)	•	MLRA 149B)	`	, (•		Redox (A16) (LRR K, L, R)		
			•	(S9) (I RR	R MIR	A 149R)				
	ack Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 14 rdrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)						9B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)			
	d Layers (A5)	•	Loamy Gleyed Ma		LIXIX IX, I	-)				
		- (044)					Polyvalue Below Surface (S8) (LRR K, L)			
	ed Below Dark Surface		X Depleted Matrix (F	•			Thin Dark Surface (S9) (LRR K, L)			
	ark Surface (A12)		X Redox Dark Surfa				Iron-Manganese Masses (F12) (LRR K, L, R)			
-	Mucky Mineral (S1)	•	Depleted Dark Su				Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy (Gleyed Matrix (S4)		Redox Depression	ns (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy I	Redox (S5)						Red Parent Ma	aterial (TF2)		
Stripped	d Matrix (S6)						Very Shallow I	Dark Surface (TF12)		
Dark Su	urface (S7) (LRR R, N	ILRA 149B)					Other (Explain in Remarks)			
		on and wetlar	nd hydrology must be pr	esent, unle	ess distur	bed or pr	oblematic.			
Restrictive	Layer (if observed)									
Type:										
Depth	(inches):					Ну	dric Soil Present?	Yes <u>X</u> No		
Remarks:						I				
Indicators of	hydric soils include a	Donloted Ma	trix and Redox Dark Su	rfaco						
indicators of	Tryano sons moidae a	Depicted Ma	inx and redox bank ou	nacc.						

ATTACHMENT B

USACE JURISDICTIONAL DETERMINATION CHECKLIST

CHECKLIST OF INFORMATION INCLUDED WITH REQUESTS FOR JURISDICTIONAL DETERMINATIONS (JD)*

- 1. Names (including POC if a corporation or other entity), complete mailing addresses and phone numbers of the following:
 - CURRENT PROPERTY OWNER (include a letter granting ACOE access to review the parcel)
 - RH and RM Ajemian and Roberta Schmidt 7209 Morgan Road Liverpool, NY 13090

Ajemian Properties LLC 7209 Morgan Road Liverpool, NY 13090

• APPLICANTS (Project Sponsors)

TC Syracuse Development Associates, LLC 300 Conshohocken State Road, Suite 250 West Conshohocken, PA 19428

- WETLAND DELINEATOR (Consultant)
 - Robert March/Craig Amundson Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

300 Kimball Drive – 4th Floor, Parsippany, NJ 07054. Phone # (973) 560-4900

- 2. 8 \(^1/2\)-inch x 11-inch Size Location Map (preferably a copy of the USGS Quad or DEC Wetlands Map with site identified on it), coordinates of the approximate center point of site AND of each potentially jurisdictional waters of the U.S. feature on the site (either Latitude/Longitude or UTM Grid Coordinate), showing the stream orders of all streams in the vicinity of the site AND the location of each stream reach associated with the project review area. Please provide the coordinates of the start and end points of these reaches, and identify them as traditionally navigable waters [TNWs], non-navigable perennial relatively permanent waters [perennial RPWs], non-navigable seasonal relatively permanent waters [seasonal RPWs], or non-navigable tributaries that do not typically flow year-round or have continuous flow at least seasonally [non-RPWs]
 - Please see Figure 1 USGS Site Location Map, Figure 5 NYDEC Freshwater Wetlands and Waters Map, Figure 6 National Wetlands Inventory Map, and Drawings WL100-104 (USACE Jurisdictional Determination Plans).
- 3. Cover letter describing the purpose of the request, a general description of the proposed project, the size (acres) of the parcel, and the size of the limits of the project site or review area (if smaller than the parcel)**
 - Please see Cover Letter of application and Section 1.0 of the application.
- 4. Delineation report, including the following supporting information:
 - Description of any current and/or historic land uses on the site
 - Please see Section 1.0 of the application.
 - DEC Wetlands Maps, NWI Maps, Soil Survey Maps
 - See Figure 5, Figure 6 and Figure 8 respectively in the application for the above maps.
 - Watershed size, drainage area size (for each stream reach), average annual rainfall/snowfall
 - Drainage Area Size to Onsite: ±1044 sq. miles per USGS StreamStats.
 - Average annual rainfall/snowfall: ±42 inches/year.
 - Discussion of whether tributaries (streams) on the site are TNWs, perennial RPWs, seasonal RPWs, or non-RPWs. Include a description of general flow patterns, volume and frequency ***
 - The tributary of Onondaga Lake located onsite is a perennial Relatively Permanent Water (RPW) that flows southwest towards Oswego Road and ultimately to Onondaga Lake.
 - Description of whether each wetland on the site either abuts or is adjacent to a tributary, identify which tributary (e.g. Wetland A directly abuts an unnamed tributary to Kayaderosseras Creek), and provide a discussion of the justification for this determination
 - Please see Section 2.2 of the application and the table on Drawing WL100 (Overall USACE Jurisdictional Determination Plan) for descriptions of the wetlands and waters.
 - Description of tributary connections to a TNW for each aquatic resource on the site, including a discussion of wetland and/or other connections (e.g. Wetland B connects to Wetland A via a culvert under Elm St. Wetland B abuts an unnamed tributary to Kayaderosseras Creek, which is a TNW)
 - Please see Section 2.2 of the application and the Table on Drawing WL100 (Overall USACE Jurisdictional Determination Plan) for descriptions of the wetlands and waters.
 - River miles to a TNW
 - Offsite (Onondaga Lake): 1.4 Miles
 - Aerial (straight) miles to a TNW
 - Offsite (Onondaga Lake): 0.97 Miles
 - Description of tributary substrate composition (e.g. silts, sands, gravel, etc.)
 - Tributary of Onondaga Lake is comprised of silts and concrete/rip-rap slopes and channel bottom.

- Identify potential pollutants
 - Potential pollutants are unknown.
- Identify potential habitat for species
 - Waters and wetlands onsite may provide habitat for birds, fish, amphibians and reptiles.
- Justification for proposed "isolated" (SWANCC) or non-jurisdictional determinations on any wetlands or streams
 - Please see Section 3.0 of the application.
- Description of vegetative cover types on the site
 - Please see Section 1.0 and Section 2.2 of the application and the Table on Drawing WL100 (Overall USACE Jurisdictional Determination Plan) for descriptions of the cover types onsite.
- Wetland Delineation Forms for each cover type
 - See Attachment A Field Data Sheets for a description of the vegetation.
- Color photographs of all representative areas of the site (taken during the growing season), including any connections between tributaries or between tributaries and wetlands
 - Please see Appendix A of the application for the Photograph Log and Photograph Location Map.
- 5. Surveyed delineation drawing, including the following:
 - Title block, including drawing date, scale, revision dates, north arrow, existing topographic contours (if available), benchmarks, and the stamp of a licensed surveyor or a narrative describing how the GPS data were obtained
 - Boundary lines of the parcel, AND of the project site, clearly marked with the acres shown on the drawing
 - Delineation flags shown as points that are connected by straight lines (or extend off-site at parcel boundaries), and are identified on the drawing with the corresponding number and/or letter that is written on the flag in the field ****
 - Appropriate hatching and/or shading to identify the extent of waters of the US, including jurisdictional wetlands, and any "isolated" or non-jurisdictional waterbodies or wetlands
 - All defined tributaries on the site, identified either via flagging or a standard tributary symbol that is in the legend, and locations of any other connections between waters (e.g. culverts, ditches and/or swales)
 - Table outlining the acres of the waters of the US, and "isolated" or non-jurisdictional waters, in addition to the linear feet of all tributaries within the boundaries of the project site or parcel.
 - Please see Drawings WL100-104 (USACE Jurisdictional Determination Plans) for the above requirements.
- * A JD is a determination of the extent of jurisdictional waterbodies and/or wetlands within the boundaries of a parcel of land or a project site
- ** A project site is the limits of all lands expected to be disturbed for a single and complete project, or the initial phases of a phased project such as a subdivision
- *** For seasonal RPWs, non-RPWs and wetlands adjacent to RPWs and non-RPWs that require a significant nexus determination, please also provide information regarding whether the stream and/or wetland has more than an insubstantial or speculative effect on the chemical, physical and/or biological integrity of TNWs, such as a functional assessment of the aquatic resource functions that the stream and its adjacent wetlands provides
- **** Delineation flags may need to be replaced on a site prior to scheduling a site inspection with the ACOE

ATTACHMENT C POINT OF CONTACT INFORMATION

POINT OF CONTACT INFORMATION

Property Owner:

RH and RM Ajemian and Roberta Schmidt 7209 Morgan Road Liverpool, NY 13090-4534 Phone: (315) 436-6742

Ajemian Properties LLC 7209 Morgan Road Liverpool, NY 13090-4534 Phone: (315) 436-6742

Applicant:

TC Syracuse Development Associates, LLC Contact: George Laigaie 300 Conshohocken State Road, Suite 250 West Conshohocken, PA 19428 Phone: (484) 530-4722

Email: glaigaie@trammellcrow.com

Consultant / Wetland Delineator:

Robert March, P.W.S. Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive, 4th Floor Parsippany, NJ 07054 Phone: (973) 560-4900

DRAWINGS

